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TABLES OF THE THIRD INTEGRAL

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ABSTRACT

The coefficients of the terms of the third integral up to the eighth degree are given in the form of tables for different values of the ratio of the unperturbed frequencies. The cases where this ratio is a rational number n/m with $n + m \leq 10$ are considered separately. Two applications are made (*a*) in finding the constancy of the third integral in two cases and (*b*) in finding the resonance regions in the resonant cases.

I. GENERAL FORMULAE

In many numerical applications of the third integral higher-order terms are needed. The formulae for finding these terms step by step have been given already (Contopoulos 1960), but their application for terms of order higher than the third needs a very long time. For this reason a program has been developed for a computer to make all necessary algebraic operations and give the higher-order terms of the third integral.

The program can be used directly for any Hamiltonian of the form

$$H = \tfrac{1}{2}(X^2 + Y^2 + Ax^2 + By^2) - \epsilon x^\eta y^\theta , \tag{1}$$

where $A^{1/2}/B^{1/2}$ is irrational (or rational n/m with $n + m$ large).

The same program can be used also as a subroutine in a simple main program to find the third integral for Hamiltonians of the form

$$H = \tfrac{1}{2}(X^2 + Y^2 + Ax^2 + By^2) - \sum_{i=1}^{n} \epsilon_i x^{\eta_i} y^{\theta_i} . \tag{2}$$

Table 1 gives the terms of the third integral corresponding to the Hamiltonian

$$H = \tfrac{1}{2}(X^2 + Y^2 + Ax^2 + By^2) - \epsilon xy^2 \; (=h) \tag{3}$$

for different values of A and B, up to the eighth degree in the variables.

We give the values of the coefficients of each term of the form

$$(A^{1/2}x)^a X^b (B^{1/2}y)^c Y^d \tag{4}$$

in each term $\Phi_{1,N-2}$ of the third integral

$$\Phi_1 = \Phi_{10} + \epsilon\Phi_{11} + \ldots + \epsilon^{N-2}\Phi_{1,N-2} + \ldots , \tag{5}$$

where $N = a + b + c + d \leq 8$, together with N, a, b, c, d.

For numerical applications each term of Φ_{1N} must be multiplied by ϵ^N.

We take always

$$\Phi_{10} = \tfrac{1}{2}(X^2 + Ax^2) . \tag{6}$$

Table 1 contains the third integral for the following values of $A^{1/2}$ and $B^{1/2}$

a) $A^{1/2} = 0.02k$ from $k = 1$ to $k = 50$, $B^{1/2} = 1$,

b) $B^{1/2} = 0.02k$ from $k = 1$ to $k = 50$, $A^{1/2} = 1$,

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with the exception of the cases where $A^{1/2}/B^{1/2}$ is a simple rational number ($\frac{2}{5}, \frac{1}{2}, \frac{4}{5}, \frac{1}{1}, \frac{2}{1}$). These rational cases, together with other simple rational cases, are considered in Table 2. The values of $A^{1/2}$, $B^{1/2}$, A, and B are given at the top of each column.

Special care has been taken to separate the secular terms. If $A^{1/2}/B^{1/2} = n/m$ (where n = even), then secular terms appear for the first time in $\Phi_{1,n+m-2}$. A method of constructing integrals devoid of secular terms has been described in a previous paper (Contopoulos 1963). If $n + m$ is large, we may ignore the effect of the secular terms, if the approximation used is of small degree. Table 2 gives the secular terms when $n + m \leq 10$.

If we set $B^{1/2}x = \bar{x}$, $B^{1/2}y = \bar{y}$, and $B^{1/2}t = \bar{t}$, we find

$$\frac{d\bar{x}}{d\bar{t}} = X\,, \qquad \frac{d\bar{y}}{d\bar{t}} = Y\,, \qquad \frac{dX}{d\bar{t}} = -\frac{\partial \bar{H}}{\partial \bar{x}}\,, \qquad \frac{dY}{d\bar{t}} = -\frac{\partial \bar{H}}{\partial \bar{y}}\,, \tag{7}$$

where $\bar{H}$ is the Hamiltonian H expressed in the new canonical variables, i.e.,

$$\bar{H} = \tfrac{1}{2}\left(X^2 + Y^2 + \frac{A}{B}\,\bar{x}^2 + \bar{y}^2\right) - \bar{\epsilon}\,\bar{x}\bar{y}^2 = h\,, \tag{8}$$

where $\bar{\epsilon} = \epsilon/B^{3/2}$.

On the other hand, if we divide both members of equation (3) by h, we find

$$2H^* = 1 = X^{*2} + Y^{*2} + Ax^{*2} + By^{*2} - 2\epsilon^* x^* y^{*2}\,, \tag{9}$$

where $x^* = x/(2h)^{1/2}$, $y^* = y/(2h)^{1/2}$, $X^* = X/(2h)^{1/2}$, $Y^* = Y/(2h)^{1/2}$, and $\epsilon^* = \epsilon(2h)^{1/2}$.

If we apply both transformations (8) and (9), we find a reduced Hamiltonian $\bar{H}^*$ in the form

$$2\bar{H}^* = \bar{X}^{*2} + \bar{Y}^{*2} + \frac{A}{B}\,\bar{x}^{*2} + \bar{y}^{*2} - 2\bar{\epsilon}^*\bar{x}^*\bar{y}^{*2} = 1\,, \tag{10}$$

where

$$\bar{x}^* = B^{1/2}x/(2h)^{1/2}\,, \qquad \bar{y}^* = B^{1/2}y/(2h)^{1/2}\,, \qquad \bar{X}^* = X/(2h)^{1/2}\,,$$

$$\bar{Y}^* = Y/(2h)^{1/2} \qquad \text{and} \qquad \bar{\epsilon}^* = \bar{\epsilon}\,(2h)^{1/2} = \frac{\epsilon(2h)^{1/2}}{B^{3/2}}\,.$$

These variables are canonical with Hamiltonian $\bar{H}^*$ and time $\bar{t} = B^{1/2}t$. Similar results are found if we write the Hamiltonian in the form

$$2\bar{H}^* = \bar{X}^{*2} + \bar{Y}^{*2} + \bar{x}^{*2} + \frac{B}{A}\,\bar{y}^{*2} - 2\bar{\epsilon}^*\bar{x}^*\bar{y}^{*2} = 1\,, \tag{10a}$$

with $\bar{x}^* = A^{1/2}x/(2h)^{1/2}$, etc., $\bar{\epsilon}^* = \epsilon(2h)^{1/2}/A^{3/2}$.

This means that, if we have to compare different Hamiltonians of the form (3), the essential parameters are the ratio of the frequencies $A^{1/2}/B^{1/2}$ and the perturbation parameter $\epsilon(2h)^{1/2}/B^{3/2}$ or $\epsilon(2h)^{1/2}/A^{3/2}$.

We write here the formulae giving the terms of degree $N + 1$ (i.e., the terms of $\Phi_{1,N-1}$) when the terms of degree N are given, using the notations of the present paper. Let

$$\Phi_{1,N-2} = \Sigma C_{abc}(A^{1/2}x)^a X^b (B^{1/2}y)^c Y^d\,; \tag{11}$$

then

$$\begin{aligned} -(\Phi_{1,N-2}, H_1) = {} & -\Sigma C_{abc}[b(A^{1/2}x)^a X^{b-1}\,(B^{1/2}y)^{c+2}\,Y^d \\ & + 2d(A^{1/2}x)^{a+1}\,X^b\,(B^{1/2}y)^{c+1}\,Y^{d-1}] \end{aligned} \tag{12}$$

and

$$\Phi_{1,N-1} = -\int(\Phi_{1,N-2}, H_1)dt\,. \tag{13}$$

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In the more general case that $H_1 = x^\eta y^\theta$, formula (12) becomes

$$-(\Phi_{1,N-2}, H_1) = -\Sigma C_{abc}[\eta b(A^{1/2}x)^{a+\eta-1} X^{b-1} (B^{1/2}y)^{c+\theta} Y^d + \theta d(A^{1/2}x)^{a+\eta} X^b(B^{1/2}y)^{c+\theta-1} Y^{d-1}] . \tag{14}$$

If we set in a term

$$\Omega = \int C'_{\alpha\beta\gamma} (A^{1/2}x)^\alpha X^\beta (B^{1/2}y)^\gamma Y^\delta dt , \tag{15}$$

the values

$$\begin{aligned} A^{1/2}x &= (2\Phi_{10})^{1/2} \sin A^{1/2}(t - t_0) , & X &= (2\Phi_{10})^{1/2} \cos A^{1/2}(t - t_0) , \\ B^{1/2}y &= (2\Phi_{20})^{1/2} \sin B^{1/2} t , & Y &= (2\Phi_{20})^{1/2} \cos B^{1/2} t , \end{aligned} \tag{16}$$

with

$$\Phi_{20} = \tfrac{1}{2}(Y^2 + By^2) , \tag{17}$$

we find

$$\Omega = \frac{C'_{\alpha\beta\gamma}(2\Phi_{10})^{(\alpha+\beta)/2}(2\Phi_{20})^{(\gamma+\delta)/2}(-1)^{k+l}}{A^{(\alpha-a)/2}B^{(\gamma-c)/2}2^{N+1}} \times \sum_{p_1=0}^{\alpha}\sum_{p_2=0}^{\beta}\sum_{p_3=0}^{\gamma}\sum_{p_4=0}^{\delta}(-1)^{p_1+p_2}C^\alpha_{p_1}C^\beta_{p_2}C^\gamma_{p_3}C^\delta_{p_4}U_i , \tag{18}$$

where

$$k = \left[\frac{\alpha}{2}\right], \qquad l = \left[\frac{\gamma}{2}\right],$$

the symbol $[A]$ meaning the largest integer $\leq A$, and

$$U_i = \int \begin{matrix}\cos\\ \sin\end{matrix}[(\alpha - 2p_1)A^{1/2}(t - t_0)]\cos[(\beta - 2p_2)A^{1/2}(t - t_0)] \times \begin{matrix}\cos\\ \sin\end{matrix}[(\gamma - 2p_3)B^{1/2}t]\cos[(\delta - 2p_4)B^{1/2}t]\,dt , \tag{19}$$

and we have U_1 when α and γ are even (both cosines), U_2 if α and γ are odd (both sines), U_3 if α is even and γ is odd (cosine and sine), and U_4 if α is odd and γ is even (sine and cosine).

If we set

$$\begin{matrix}A_1\\A_2\end{matrix} = (\alpha - 2p_1) \pm (\beta - 2p_2), \qquad \begin{matrix}\Gamma_1\\\Gamma_2\end{matrix} = (\gamma - 2p_3) \pm (\delta - 2p_4), \tag{20}$$

we find after integration

$$\begin{matrix}U_1\\U_2\end{matrix} = \tfrac{1}{8}\sum_{i=1}^{2}\sum_{j=1}^{2}\frac{1}{(A_i^2A - \Gamma_j^2B)(2\Phi_{10})^{|A_i|/2}(2\Phi_{20})^{|\Gamma_j|/2}} \times \left\{ \begin{matrix}s_{11}\\s_{21}\end{matrix} \sum_{q=0}^{[(|A_i|-1)/2]}\sum_{r=0}^{[|\Gamma_j|/2]}(-1)^{q+r}C^{|A_i|}_{2q+1}C^{|\Gamma_j|}_{2r}(A^{1/2}x)^{2q+1}X^{|A_i|-2q-1}(B^{1/2}y)^{2r} \times Y^{|\Gamma_j|-2r} + \begin{matrix}s_{12}\\s_{22}\end{matrix}\sum_{q=0}^{[|A_i|/2]}\sum_{r=0}^{[(|\Gamma_j|-1)/2]}(-1)^{q+r}C^{|A_i|}_{2q}C^{|\Gamma_j|}_{2r+1} \times (A^{1/2}x)^{2q}X^{|A_i|-2q}(B^{1/2}y)^{2r+1}Y^{|\Gamma_j|-2r-1}\right\} , \tag{21}$$

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where

$$s_{11} = 2\,|A_i|\,A^{1/2}\,, \quad s_{12} = -2\,|\Gamma_j|\,B^{1/2}\,, \quad s_{21} = \frac{2\Gamma_j A_i B^{1/2}}{|A_i|}\,, \quad s_{22} = \frac{-2\,A_i\Gamma_j A^{1/2}}{|\Gamma_j|}\,,$$

and

$$\begin{matrix} U_3 \\ U_4 \end{matrix} = \tfrac{1}{8}\sum_{i=1}^{2}\sum_{j=1}^{2}\frac{1}{(A_i^2 A - \Gamma_j^2 B)(2\Phi_{10})^{|A_i|/2}(2\Phi_{20})^{|\Gamma_j|/2}}$$

$$\times\left\{\begin{matrix} s_{31} \\ s_{41} \end{matrix}\sum_{q=0}^{[|A_i|/2]}\sum_{r=0}^{[|\Gamma_j|/2]}(-1)^{q+r}C^{|A_i|}_{2q}C^{|\Gamma_j|}_{2r}(A^{1/2}x)^{2q}X^{|A_i|-2q}(B^{1/2}y)^{2r}Y^{|\Gamma_j|-2r}\right. \tag{22}$$

$$+\begin{matrix} s_{32} \\ s_{42} \end{matrix}\sum_{q=0}^{[(|A_i|-1)/2]}\sum_{r=0}^{[(|\Gamma_j|-1)/2]}(-1)^{q+r}C^{|A_i|}_{2q+1}C^{|\Gamma_j|}_{2r+1}(A^{1/2}x)^{2q+1}$$

$$\left.\times X^{|A_i|-2q-1}(B^{1/2}y)^{2r+1}Y^{|\Gamma_j|-2r-1}\right\},$$

where

$$s_{31} = 2\Gamma_j B^{1/2}\,, \quad s_{32} = \frac{2\,|A_i|\,\Gamma_j A^{1/2}}{|\Gamma_j|}\,, \quad s_{41} = -2\,A_i A^{1/2}\,, \quad s_{42} = \frac{-2\,|\Gamma_j|\,A_i B^{1/2}}{|A_i|}\,.$$

The formulae (18), (21), and (22) show that, if $A^{1/2}$ and $B^{1/2}$ are multiplied by R, then Ω is multiplied by $R^{-[a+\gamma-a-c]-1}$. In the case of the Hamiltonian (3) this is R^{-3}; in the general case (1) it is $R^{-(\eta+\theta)}$. Therefore, if we have the same Φ_{10}, then $\Phi_{1,N-2}$ is multiplied by $R^{-3(N-2)}$ [or $R^{-(\eta+\theta)(N-2)}$].

The formulae (12), (18), (21), and (22) indicate the main steps of the computer program. There are eleven summations in all, which introduce a very large number of terms. However most of the terms are equal. The following number of different terms are found in general:

Degree	2	3	4	5	6	7	8	9	10	11	12	13	14
Number of terms	2	3	8	11	20	26	40	50	70	85	112	133	168

The time needed to calculate the terms up to the tenth degree for one set of values $A^{1/2}$, $B^{1/2}$ by the IBM 7094 computer is 2.5 min. The time needed to reach the fourteenth degree terms approaches 40 min.

Figures 1–3 give the logarithms of the absolute values of the coefficients of the terms of degree $N \leq 5$ as functions of $A^{1/2}$ when $A^{1/2} \leq B^{1/2} = 1$ and as functions of $B^{1/2}$ when $B^{1/2} \leq A^{1/2} = 1$. Near each curve a four-figure number indicates the order of the term (N) and the exponents of $A^{1/2}x$, X, and $B^{1/2}y$ (a, b, c); the exponent of Y is $d = N - a - b - c$.

The cases where the coefficients tend to infinity correspond to resonant cases. In Figure 1 ($N = 3$) there is only one resonance, for $B^{1/2}/A^{1/2} = \frac{1}{2}$. Some coefficients tend to infinity also when $A^{1/2}$ or $B^{1/2}$ tends to zero. In fact for $A^{1/2} \to 0$ or $B^{1/2} \to 0$ the third integral is not valid. Then one can apply a different expansion technique, used in the case of the adiabatic invariants.

If one coefficient tends to zero, its logarithm tends to $-\infty$. This happens in Figure 1 for $B^{1/2}/A^{1/2} = \sqrt{(2)}/2$. In fact the term $A^{1/2}x\,By^2$ in Φ_1 has a coefficient $(A - 2B)/[(4B - A)A^{1/2}B]$, which becomes zero for $A = 2B$.

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In Figure 2 we have resonance also for $A^{1/2} = B^{1/2} = 1$. One term becomes zero for $A^{1/2}/B^{1/2} = \frac{1}{2}$ and another one for $B^{1/2}/A^{1/2} = \sqrt{2}/\sqrt{5}$.

In Figure 3, *a* and *b*, we have also resonances for $A^{1/2}/B^{1/2} = \frac{2}{3}$ and $B^{1/2}/A^{1/2} = \frac{1}{4}$.

II. RESONANT CASES

If $A_i^2 A - \Gamma_j^2 B = 0$, the terms U_i would be infinite. In such a case, however, we have secular terms and the program prints the coefficients of the secular terms. In fact we may write

$$U_i = \tfrac{1}{4} \sum_{i=1}^{2} \sum_{j=1}^{2} \int \begin{matrix}\cos\\ \sin\end{matrix} [A_i A^{1/2}(t-t_0)] \begin{matrix}\cos\\ \sin\end{matrix} [\Gamma_j B^{1/2} t]\, dt, \tag{23}$$

and if we have

$$|A_i| A^{1/2} - |\Gamma_j| B^{1/2} = 0, \tag{24}$$

we find

$$\begin{aligned} &\int \cos[\,|A_i|\, A^{1/2}(t-t_0)]\cos(|\Gamma_j| B^{1/2} t)\, dt \\ &= \tfrac{1}{2}\int \{\cos[\,|A_i|\, A^{1/2}(t-t_0) + |\Gamma_j| B^{1/2} t] + \cos[\,|A_i|\, A^{1/2}(t-t_0) - |\Gamma_j| B^{1/2} t]\}\, dt \\ &= \tfrac{1}{2}\left\{\frac{\sin[\,|A_i|\, A^{1/2}(t-t_0) + |\Gamma_j| B^{1/2} t]}{2\,|A_i|\, A^{1/2}}\right\} + \frac{t}{2}\cos(|A_i|\, A^{1/2} t_0). \end{aligned} \tag{25}$$

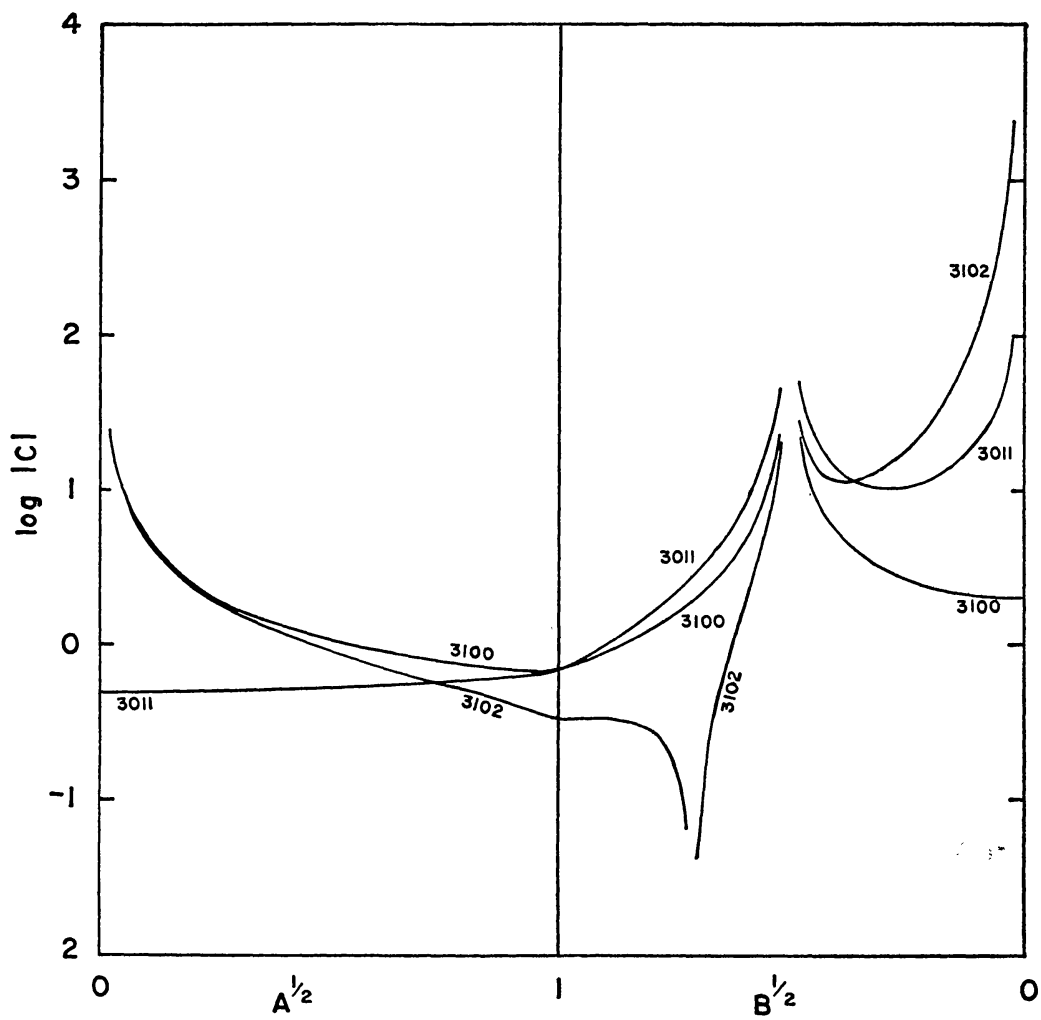

FIG. 1.—The logarithm of the absolute values of the coefficients of the terms of third degree as a function of $A^{1/2}$ (*left*) if $B^{1/2} = 1$ and as a function of $B^{1/2}$ (*right*) if $A^{1/2} = 1$.

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and similarly

$$\int \sin[\,|A_i|\,A^{1/2}(t-t_0)\,]\sin(\,|\Gamma_j|\,B^{1/2}t)\,dt$$
$$= -\tfrac{1}{2}\left\{\frac{\sin[\,|A_i|\,A^{1/2}(t-t_0)+|\Gamma_j|\,B^{1/2}t]}{2\,|A_i|\,A^{1/2}}\right\}+\frac{t}{2}\cos(\,|A_i|\,A^{1/2}t_0)\,, \tag{26}$$

$$\int \cos[\,|A_i|\,A^{1/2}(t-t_0)\,]\sin(\,|\Gamma_j|\,B^{1/2}t)\,dt$$
$$= -\tfrac{1}{2}\left\{\frac{\cos[\,|A_i|\,A^{1/2}(t-t_0)+|\Gamma_j|\,B^{1/2}t]}{2\,|A_i|\,A^{1/2}}\right\}+\frac{t}{2}\sin(\,|A_i|\,A^{1/2}t_0)\,, \tag{27}$$

and

$$\int \sin[\,|A_i|\,A^{1/2}(t-t_0)\,]\cos(\,|\Gamma_j|\,B^{1/2}t)\,dt$$
$$= -\tfrac{1}{2}\left\{\frac{\cos[\,|A_i|\,A^{1/2}(t-t_0)+|\Gamma_j|\,B^{1/2}t]}{2\,|A_i|\,A^{1/2}}\right\}-\frac{t}{2}(\,|A_i|\,A^{1/2}t_0)\,. \tag{28}$$

The first part of each term is expressed as a function of $A^{1/2}x, X, B^{1/2}y, Y$ and is included in the printed terms of Φ, while the secular part is printed separately. Table 2 gives the terms of the third integral up to one degree before secular terms appear.

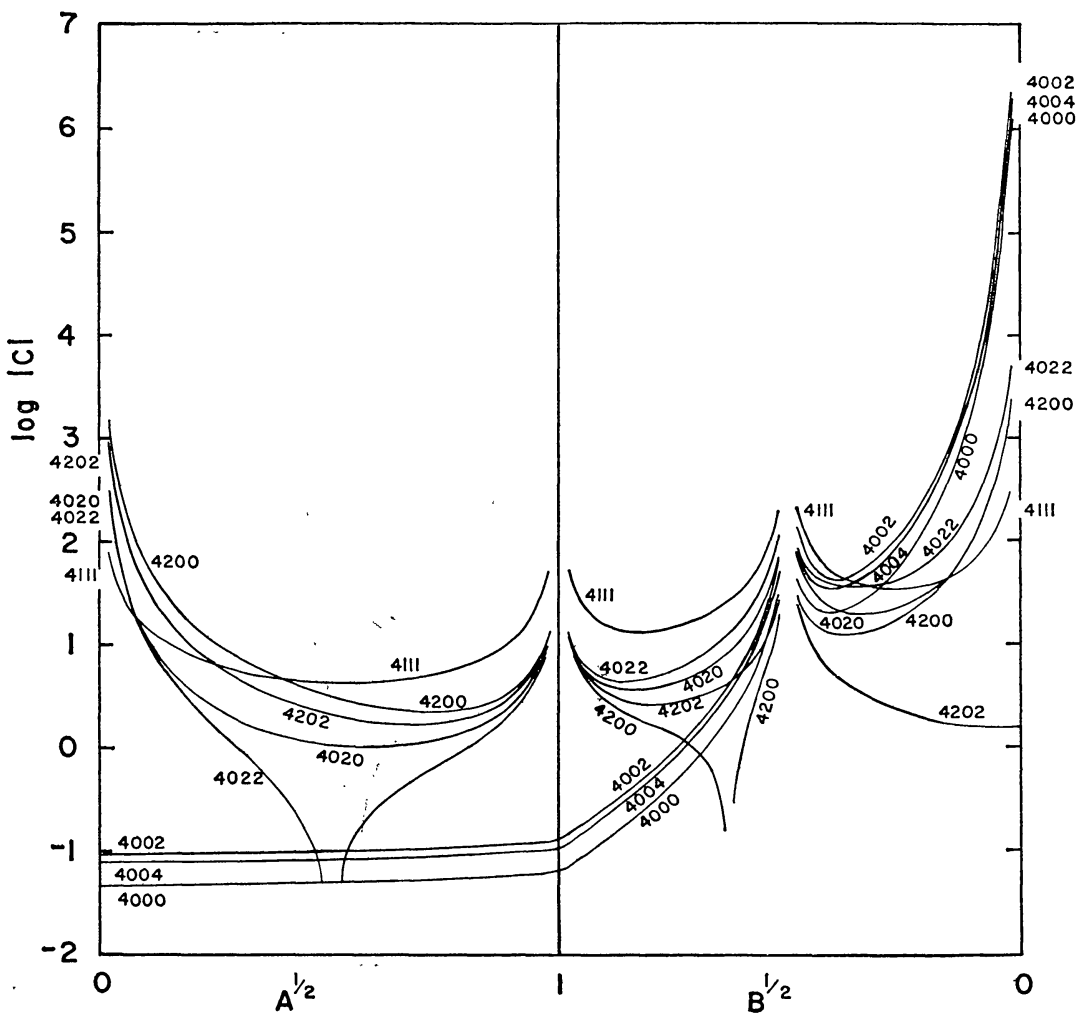

FIG. 2.—Same as in Fig. 1 for the terms of fourth degree

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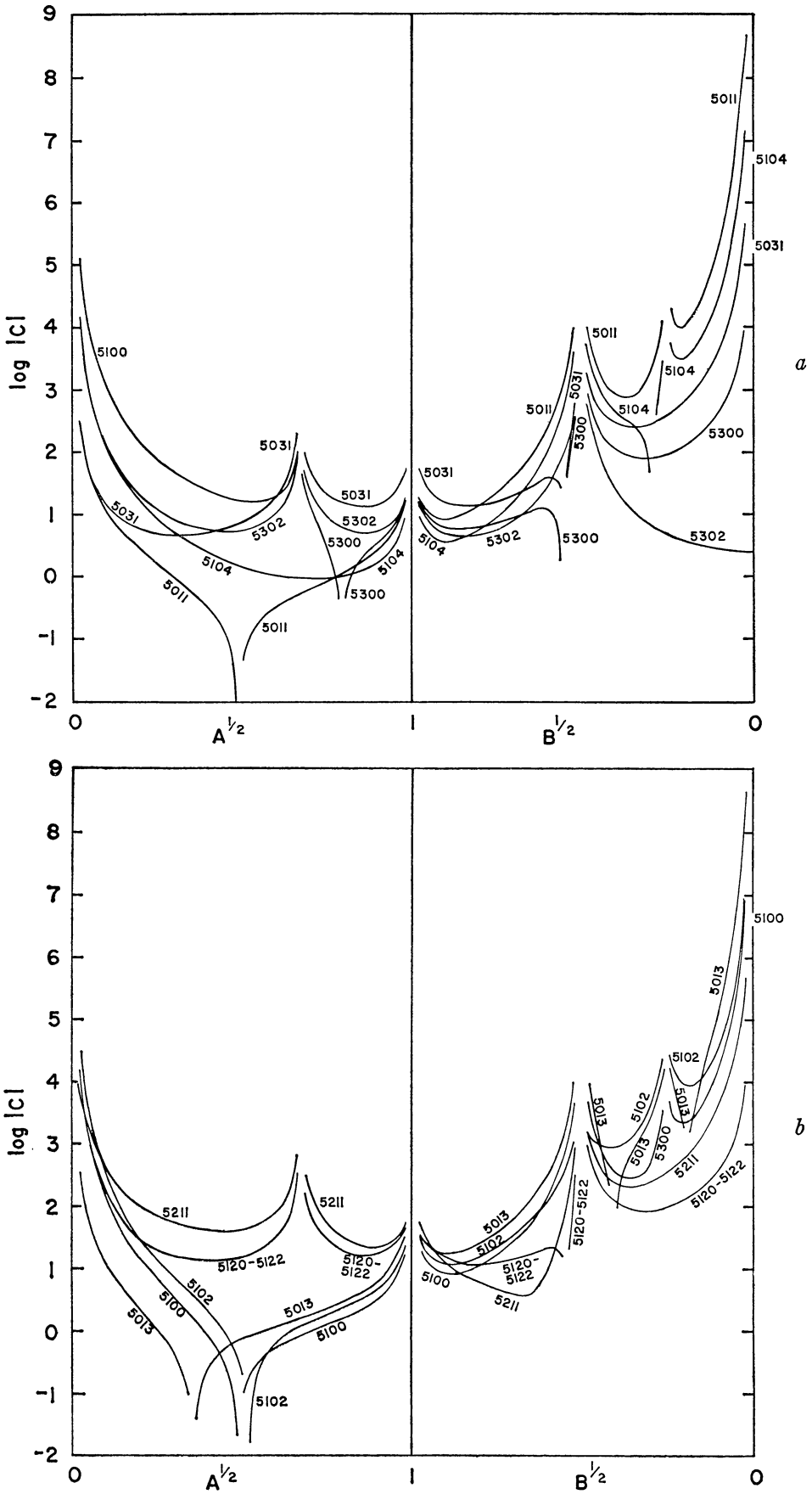

FIG. 3, *a*, *b*.—Same as in Fig. 1 for the terms of fifth degree

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Further, the following quantities are given for each secular term: $\alpha + \beta$, $\gamma + \delta$, q (coefficient of the secular term), sine or cosine, and $|A_i|$ (sine if $|A_i|$ is even, and cosine if it is odd). The secular terms are of the form

$$tq\,(2\Phi_{10})^{(\alpha+\beta)/2}\,(2\Phi_{10})^{(\gamma+\delta)/2}\,\begin{matrix}\cos\\ \sin\end{matrix}\,(|A_i|A^{1/2}t_0)\,.$$

In each rational case, $A^{1/2}/B^{1/2} = n/m$, we take the following initial terms:

a) Φ_{10},

b) $$S_0 = (2\Phi_{10})^{m/2}\,(2\Phi_{20})^{n/2}\sin\,[nB^{1/2}t - mA^{1/2}\,(t - t_0)] \text{ if } m + n = \text{odd}\,, \tag{29}$$

$$\text{or } C_0 = (2\Phi_{10})^{m/2}\,(2\Phi_{20})^{n/2}\cos\,[nB^{1/2}t - mA^{1/2}\,(t - t_0)] \text{ if } m + n = \text{even}\,. \tag{30}$$

We may write

$$\begin{aligned} S_0 = &\sum_{q_1=0}^{[m/2]}\sum_{q_2=0}^{[(n-1)/2]}(-1)^{q_1+q_2}C^m_{2q_1}C^n_{2q_2+1}(A^{1/2}x)^{2q_1}X^{m-2q_1}(B^{1/2}y)^{2q_2+1}Y^{n-2q_2-1} \\ &-\sum_{q_1=0}^{[(m-1)/2]}\sum_{q_2=0}^{[n/2]}(-1)^{q_1+q_2}C^m_{2q_1+1}C^n_{2q_2}(A^{1/2}x)^{2q_1+1}X^{m-2q_1-1}(B^{1/2}y)^{2q_2}Y^{n-2q_2}\,, \end{aligned} \tag{31}$$

and

$$\begin{aligned} C_0 = &\sum_{q_1=0}^{[m/2]}\sum_{q_2=0}^{[n/2]}(-1)^{q_1+q_2}C^m_{2q_1}C^n_{2q_2}(A^{1/2}x)^{2q_1}X^{m-2q_1}(B^{1/2}y)^{2q_2}Y^{n-2q_2} \\ &+\sum_{q_1=0}^{[(m-1)/2]}\sum_{q_1=0}^{[(n-1)/2]}(-1)^{q_1+q_2}C^m_{2q_1+1}C^n_{2q_2+1}(A^{1/2}x)^{2q_1+1}X^{m-2q_1-1}(B^{1/2}y)^{2q_2+1}Y^{n-2q_2-1}\,. \end{aligned} \tag{32}$$

We have shown (Contopoulos 1963) that $\begin{matrix}S_0\\ C_0\end{matrix}$ gives two secular terms of the form

$$t[q_1\,(2\Phi_{10}) + q_2\,(2\Phi_{20})](2\Phi_{10})^{n/2}\,(2\Phi_{20})^{m/2}\,\begin{matrix}\cos\\ \sin\end{matrix}\,(mA^{1/2}t_0) \tag{33}$$

in the terms of degree $m + n + 2$ and Φ_{10} gives a secular term

$$tq\,(2\Phi_{10})^{m/2}\,(2\Phi_{20})^{n/2}\,\begin{matrix}\cos\\ \sin\end{matrix}\,(mA^{1/2}t_0)\,, \tag{34}$$

with cosine if $\alpha + \gamma =$ even and sine if $\alpha + \gamma =$ odd, in the terms of degree $m + n$. If $\alpha + \gamma =$ even we have $\alpha + \gamma + \beta + \delta = m + n =$ odd, because $\beta + \delta$ is always odd.

In order to eliminate the secular terms of degree $m + n + 2$ we construct an integral of the form

$$\phi \equiv \phi_0 + \epsilon\phi_1 + \ldots = c_1\,(2\Phi_{10})^2 + c_2\,(2\Phi_{10})\,(2\Phi_{20}) + c_3\,(2\Phi_{20})^2 + \ldots + \epsilon^{m+n-4}\begin{matrix}S_0\\ C_0\end{matrix} + \ldots\,, \tag{35}$$

which gives the secular terms

$$\begin{aligned} t(2\Phi_{10})^{m/2}\,(2\Phi_{20})^{n/2}\,\begin{matrix}\cos\\ \sin\end{matrix}\,(mA^{1/2}t_0)\,\{(2\Phi_{10})[(4c_1 - 2c_2)q + q_1] \\ + (2\Phi_{20})[(2c_2 - 4c_3)\,q + q_2]\} \end{aligned} \tag{36}$$

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in ϕ_{m+n-2}. (In the special case $m+n=3$ all the terms of the second member of eq. [35] are multiplied by ϵ.) If we take

$$c_1 = -\frac{q_1}{4q} + \frac{c_2}{2}, \tag{37}$$

$$c_3 = \frac{q_2}{4q} + \frac{c_2}{2}, \tag{38}$$

these secular terms are zero.

The values of q, q_1, and q_2 are given in Table 2 for each ratio $A^{1/2}/B^{1/2} = n/m$.

If both $A^{1/2}$ and $B^{1/2}$ are multiplied by R, then q is multiplied by $R^{-3(m+n)+7}$, and q_1 and q_2 are multiplied by R^{-5}. The quantities $qA^{[3(m+n)-7]/2}$, $q_1A^{5/2}$, and $q_2A^{5/2}$ (or $qB^{[3(m+n)-7]/2}$, $q_1B^{5/2}$, and $q_2B^{5/2}$) are invariant if $A^{1/2}$ and $B^{1/2}$ change but n/m remains the same.

In order to eliminate the secular terms of degree $m+n+4$ one must add $c_1'(2\Phi_{10})^3 + c_2'(2\Phi_{10})^2(2\Phi_{20}) + c_3'(2\Phi_{10})(2\Phi_{20})^2 + c_4'(2\Phi_{20})^3$ in the terms of the sixth degree, and so on.

The secular terms of degree $2m+2n$ are of the form

$$\begin{aligned} &t[\bar{q}_1(2\Phi_{10})^{(m+n)/2} + \bar{q}_2(2\Phi_{10})^{(m+n)/2-1}(2\Phi_{20}) + \ldots + \bar{q}_{(m+n+2)/2}(2\Phi_{20})^{(m+n)/2}] \\ &\times (2\Phi_{10})^{m/2}(2\Phi_{20})^{n/2}\sin(mA^{1/2}t_0) + t(2\Phi_{10})^m(2\Phi_{20})^n\sin(2mA^{1/2}t_0) \end{aligned} \tag{39}$$

if $m+n$ is even, and

$$t(2\Phi_{10})^m(2\Phi_{20})^n\sin(2mA^{1/2}t_0) \tag{40}$$

if $m+n$ is odd.

In order to eliminate these secular terms we must add terms of the form

$$\begin{aligned} &\bar{c}_1(2\Phi_{10})^{(m+n)/2} + \bar{c}_2(2\Phi_{10})^{(m+n)/2-1}(2\Phi_{20}) + \ldots + \bar{c}_{(m+n+2)/2}(2\Phi_{20})^{(m+n)/2} \\ &\quad + [d_1(2\Phi_{10}) + d_2(2\Phi_{20})]C_0 \end{aligned} \tag{41}$$

if $m+n=$ even, or

$$[d_1(2\Phi_{10}) + d_2(2\Phi_{20})]S_0 \tag{42}$$

if $m+n=$ odd.

We have made explicit calculations of the constants d_1, and d_2 in the cases $n/m = \frac{2}{1}$ and $n/m = \frac{2}{2}$.

In the case $n/m = \frac{2}{1}$ we have $q_1 = 1$, $q_2 = 8$. The difference between these values and those found previously (Contopoulos 1963), namely, $q_1 = -5$, $q_2 = 20$, is due to the fact that at each step an arbitrary function of $(2\Phi_{10})$, $(2\Phi_{20})$ can be added. For example, the present value of S_1, as calculated by the computer, differs from the $\bar{S}_1$ of the previous paper by the quantity $-3(2\Phi_{10})(2\Phi_{20}) + 1.5(2\Phi_{20})^2$; this quantity gives the extra secular terms $t[6q(2\Phi_{10}) - 12q(2\Phi_{20})]\cos A^{1/2}t_0$.

The requirement that no secular terms should appear reduces the arbitrariness of the function of $(2\Phi_{10})$, $(2\Phi_{20})$ that is added at each step. If we take $c_2 = 0$ and $c_1 = -0.25$, $c_3 = 2$, we find

$$\phi_1 = S_1 - 0.25(2\Phi_{10})^2 + 2(2\Phi_{20})^2. \tag{43}$$

This is given in Table 3, and it is the same as the ϕ_1 of the previous paper; it could differ from it only by a quantity $c_2(2\Phi_{10} + 2\Phi_{20})^2 = c_2(2\mathrm{H}_0)^2$.

Table 3 gives the secular term of degree 6:

$$19.5t(2\Phi_{10})(2\Phi_{20})^2\sin(2A^{1/2}t_0). \tag{44}$$

Further $[d_1(2\Phi_{10}) + d_2(2\Phi_{20})]S_0$ gives the secular term

$$2t(d_1 - d_2)C_0S_0 = t(d_1 - d_2)(2\Phi_{10})(2\Phi_{20})^2\sin(2A^{1/2}t_0). \tag{45}$$

We eliminate the secular terms if we take $(d_1 - d_2) = 19.5$.

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In our previous paper the coefficient of the secular term of degree 6 was $\frac{475}{12}$ instead of 19.5. This is due to the fact that the present terms of fifth degree (Table 3) include the terms $[\frac{119}{12}(2\Phi_{10}) + 30\ (2\Phi_{20})]S_0$ besides the terms (51) of the previous paper. Thus if we add now the quantity 19.5 $(2\Phi_{20})\ S_0$ to the terms of degree 5 we find a final ϕ_2 which differs from the final ϕ_2 of the previous paper (formula [54]) by $\frac{119}{12}\ S_0\ (2\Phi_{10} + 2\Phi_{20})$. This is permissible; in fact both ϕ_2 do not give sixth-degree secular terms of the form (40).

In the case $n/m = \frac{2}{2}$ Table 3 gives the terms of degree 4, namely, $\phi_0 = C_0 + c_1\ (2\Phi_{10})^2 + c_3\ (2\Phi_{20})^2$. This expression does not give secular terms of degree 6; the secular terms of degree 8 are included in Table 3. In a recent paper (Contopoulos and Moutsoulas 1965) we have found explicitly $\bar{c}_1$, $\bar{c}_2$, $\bar{c}_3$, $\bar{c}_4$, d_1, d_2 of formula (41). The values of $A^{1/2}$, $B^{1/2}$ adopted there are $\sqrt{0.1}$ times those of the present paper; therefore the coefficients of the different terms of the third integral are changed according to the rules described above. Further C_0 has been replaced by ϕ_0; this is permissible because $(2\Phi_{i0})\phi_0$ can be written in the form (41) (because $m + n = 4$).

TABLE 4

CONSTANCY OF THE THIRD INTEGRAL*

	$x_0=y_0=0,\ X_0=0.0512,\ Y_0=0.1126$				$x_0=y_0=0,\ X_0=0.1024,\ Y_0=0.2252$			
	Max	Min	D	R	Max	Min	D	R
Φ_{10}	0.188	0.101	0.087	0.602	1.14	0.28	0.86	1.2
$+\epsilon\Phi_{11}$	.139	.129	.010	.075	0.74	.43	.31	0.5
$+\epsilon^2\Phi_{12}$	.1337	.1322	.0015	.011	0.630	.533	.097	0.17
$+\epsilon^3\Phi_{13}$	.1326	.1323	.0003	.002	0.581	.527	.054	0.10
$+\epsilon^4\Phi_{14}$	.13247	.13241	.00006	.0005	0.563	.543	.020	0.036
$+\epsilon^5\Phi_{15}$	.132448	.132424	.000024	.0002	0.5554	.5438	.0116	0.021
$+\epsilon^6\Phi_{16}$	.132444	.132422	.000022	.00017	0.558	.532	.026	0.048
$+\epsilon^7\Phi_{17}$	.132444	.132430	.000014	.00011	0.572	.543	.029	0.052
$+\epsilon^8\Phi_{18}$	.132439	.132431	.000008	.00006	0.559	.521	.038	0.069
$+\epsilon^9\Phi_{19}$	.132438	.132434	.000004	.00003	0.582	.542	.040	0.071
$+\epsilon^{10}\Phi_{1,10}$	.132437	.132435	.000002	.000015	0.559	.516	.043	0.080
$+\epsilon^{11}\Phi_{1,11}$	.1324365	.1324358	.0000007	.000005	0.585	.542	.043	0.076
$+\epsilon^{12}\Phi_{1,12}$	0.1324361	0.1324358	0.0000003	0.000002	0.558	0.515	0.043	0.085

* Units 10^{-2}.

III. APPLICATIONS

The use of the third integral (5) in actual dynamical problems is rigorously justified if it is convergent. If it is not convergent but represents asymptotically an isolating integral it can be used for small perturbations $\bar{\epsilon}^*$. However the convergence and the isolating character of the third integral are not known, although the Hamiltonian (3) is the most simple non-separable Hamiltonian. Therefore one has to make experiments using orbits with different values of $\bar{\epsilon}^*$, $A^{1/2}/B^{1/2}$, and different initial conditions.

We will give, out of a number of calculations, some results for the case $A = 0.076$, $B = 0.550$, $\epsilon = 0.206$, and two different values of h. The above values were used in previous calculations of the third integral in the case of the galactic potential near the Sun.

Two orbits were calculated for 1000 time units, corresponding to 10^{10} years in the galactic model. For many points of the orbits the value of the integral (5) was calculated, truncated after Φ_{10}, $\epsilon\Phi_{11}$,$\epsilon^2\Phi_{12}$ . . . $\epsilon^{12}\Phi_{1,12}$. The maximum and minimum values found, as well as their difference D and the relative accuracy $R = 2D/(\max + \min)$, are given in Table 4.

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In the first case the integral (5) is very well conserved; its constancy is improved as higher-order terms are included. In the second case the improvement of the value of the third integral stops after the term $\epsilon^5\Phi_{15}$; higher-order terms make the integral worse.

This is due to the fact that the perturbation parameter $\bar{\epsilon}^* = \epsilon(2h)^{1/2}/B^{3/2} = 0.125$ is near the "escape perturbation" $\bar{\epsilon}^*_{\text{esc}} = 0.185$.

The "escape perturbation" is the perturbation for which the curves of zero velocity open and the moving point may go to infinity. In the case of the Hamiltonian (10) this happens when $\bar{x}^*_{\max} = B^{1/2}/A^{1/2} = 1/2\bar{\epsilon}^*_{\text{esc}}$, i.e., $\bar{\epsilon}^*_{\text{esc}} = A^{1/2}/2B^{1/2}$.

In the first case we have $\bar{\epsilon}^* = 0.0625$; this value is about one third of $\bar{\epsilon}^*_{\text{esc}}$.

Further calculations of this kind are very useful in order to find the degree of accuracy of the third integral in different cases. The main problem is to find how near one can go to the "escape perturbation" and keep a certain accuracy of the third integral. When the third integral is not well conserved, one has to check further how well defind the invariant curves are, i.e., ho w near we are to an isolating case.

It is to be noted that, even in the second case of Table 4, where $\bar{\epsilon}^*$ is near the "escape perturbation," the third integral, truncated after any term after $\epsilon^2\Phi_{13}$, is conserved with accuracy better than 10 per cent.

Similar calculations for the case $A^{1/2}/B^{1/2} = \frac{2}{2}$ have been given in another paper (Contopoulos and Moutsoulas 1965).

Another application of the third integral concerns the resonance regions.

Table 5 gives the values of q, q_1, and q_2 for different values of $A^{1/2}/B^{1/2}$ together with the coefficients c_1 and c_3 of the compensating terms $c_1\,(2\Phi_{10})^2 + c_3\,(2\Phi_{20})^2$ that cancel the secular terms of degree $m + n + 2$. The values of c_1 and c_3 are found from equations (37) and (38) when $c_2 = 0$. In Tables 2 and 5 we have taken either $A^{1/2} = 1$ or $B^{1/2} = 1$. Whenever $m + n \leq 9$ the values of q, q_1, and q_2 are given also as ratios of integers. It is seen that for large $m + n$ the denominators become large.

In order to compare the different values of q_1 and q_2 we give in Table 6 the values of $q_1' = q_1 A^{5/2}$, $q_2' = q_2 A^{5/2}$, $D' = |q_1' - q_2'|$, if $A^{1/2} < B^{1/2}$, and the values of $q_1'' = q_1 B^{5/2}$, $q_2'' = q_2 B^{5/2}$, $D'' = |q_1'' - q_2''|$ if $B^{1/2} < A^{1/2}$. We write $\rho' = n/m \leq 1$ and give also the values $|q_1'|/\rho'^3$, $|q_2'|/\rho'^3$ and D'/ρ'^5 in the first case; if $\rho'' = m/n < 1$ we give the values of D''/ρ''^2.

In Table 6 we see that both q_1' and q_2' have the same sign; namely, they are positive for $m + n =$ odd and negative for $m + n =$ even. The difference D' is in general much smaller than q_1' and q_2'. In fact $D'/(|q_1'| + |q_2'|)$ decreases for higher-order commensurabilities. On the other hand q_1'' and q_2'' have opposite signs, except for $\rho'' = 0.5$, and the absolute value of one term is in general much larger than the other. The difference D'' is larger than $|q_1''|$ and $|q_2''|$ (except for $\rho'' = 0.5$).

Figure 4 gives the values of $\log |q_1'|$ and $\log |q_2'|$ versus ρ' (if $\rho' \leq 1$) and the values of $\log |q_1''|$ and $\log |q_2''|$ versus ρ'' (if $\rho'' < 1$). Figure 5 gives the values of $\log D'$ versus ρ' and $\log D''$ versus ρ''. Table 6 indicates that q_1', q_2', and D' can be given approximately by the formulae

$$|q_1'| \simeq |q_2'| \simeq 0.5\ \rho'^3, \text{ and } D' \simeq 0.4\ \rho'^5\,. \tag{46}$$

We may improve these formulae if we write

$$|q_i'| \simeq \frac{n^2}{m^3} \qquad \text{and} \qquad D' = \frac{0.8n^4}{m^5}\,. \tag{47}$$

When $\rho'' < 1$, we have the order of magnitude of D'' by

$$D'' \simeq 5\ \rho''^2 \tag{48}$$

or

$$D'' \simeq 5\ m^2/n^2\,. \tag{49}$$

Further calculations are needed to verify or improve these relations.

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TABLE 5

THE COEFFICIENTS OF THE SECULAR TERMS AND OF THE COMPENSATING TERMS

n/m	2/1	2/2	2/3	2/4
$A^{1/2}/B^{1/2}$	1./0.5	1./1.	1./1.5	1./2.
q	1.	-0.5	$-\frac{1}{12}=-0.83333333\times10^{-1}$	$625\times10^{-4}/9$ $=0.69444444\times10^{-2}$
q_1	1.	$-\frac{2}{3}=-0.66666667$	$\frac{1}{6}=0.16666667$	$-\frac{2}{30}=-0.66666667\times10^{-1}$
q_2	8.	$-\frac{1}{6}=-0.16666667$	$\frac{1}{9}=0.11111111$	$-1625\times10^{-4}/3$ $=-0.54166667\times10^{-1}$
c_1	-0.25	$-\frac{1}{3}=-0.33333333$	0.5	2.4
c_3	2.	$\frac{1}{12}=0.83333333\times10^{-1}$	$-\frac{1}{3}=-0.33333333$	-1.95

TABLE 5—*Continued*

n/m	2/5	2/6	2/7	2/8
$A^{1/2}/B^{1/2}$	1./2.5	1./3.	1./3.5	1./4.
q	$-3125\times10^{-6}/9$ $=-0.34722222\times10^{-3}$	$-3125\times10^{-7}/27$ $=-0.11574074\times10^{-4}$	$15625\times10^{-8}/(567=7\times81)$ $=-0.27557319\times10^{-6}$	0.49209499×10^{-8}
q_1	$1/30=0.33333333\times10^{-1}$	$-4/210$ $=-0.19047619\times10^{-1}$	$75\times10^{-2}/63$ $=0.11904762\times10^{-1}$	-0.79365079×10^{-2}
q_2	$88\times10^{-3}/3$ $=0.29333333\times10^{-1}$	$-11/630$ $=-0.17460317\times10^{-1}$	$1035\times10^{-1}/(9261=21^3)$ $=0.11175899\times10^{-1}$	-0.75644841×10^{-2}
c_1	24.	$-2880/7$ $=-0.41142857\times10^{3}$	10800.	403200.
c_3	-21.12	$2640/7$ $=0.37714286\times10^{3}$	$-496800/49$ $=-0.10138776\times10^{5}$	$-384300.$

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TABLE 5—*Continued*

n/m....	4/1	4/3	4/5	6/1
$A^{1/2}/B^{1/2}$.	1./0.25	1./0.75	1./1.25	6./1.
q.....	512/3 $=0.17066667\times10^{3}$	16384/2430 $=0.67423868\times10$	$-4194304\times10^{-5}/(1701=7\times3^{5})$ $=-0.24657872\times10^{-1}$	$19\times10^{-1}/(524288=2^{19})$ $=0.36239624\times10^{-5}$
q_1.....	$-64/3$ $=-0.21333333\times10^{2}$	128/30 $=0.42666667\times10$	128/210 $=0.60952381$	$-15625\times10^{-6}/3$ $=-0.52083333\times10^{-2}$
q_2.....	704/3 $=0.23466667\times10^{3}$	128/90 $=-0.14222222\times10$	$6656\times10^{-3}/21$ $=0.31695238$	$40625\times10^{-5}/3$ $=0.13541667$
c_1.....	0.03125	-0.158203125	$81\times10^{4}/(131072=2^{17})$ $=0.61798096\times10$	20480/57 $=0.35929825\times10^{3}$
c_3.....	0.34375	-0.052734375	$105300/(32768=2^{15})$ $=-0.32135010\times10$	53248/57 $=0.93417544\times10^{3}$

TABLE 5—*Continued*

n/m.....	6/2	6/4	8/1
$A^{1/2}/B^{1/2}$.....	3./1.	1.5/1.	8./1.
q.....	$-42125\times10^{-5}/(336=16\times21)$ $=-0.12537202\times10^{-2}$	0.32234545	$187\times10^{-3}/(111476736=2^{16}\times7\times3^{5})$ $=0.16774800\times10^{-8}$
q_1.....	$4/30=\ \ 0.13333333$	-0.15238095×10	$625\times10^{-5}/3$ $=-0.20833333\times10^{-2}$
q_2.....	$-23/30=-0.76666667$	0.10476190×10	$29375\times10^{-5}/3$ $=0.97916667\times10^{-1}$
c_1.....	8960/337 $=0.26587537\times10^{2}$	0.11818140×10	58060800/187 $=0.31048556\times10^{6}$
c_3.....	51520/337 $=0.15287834\times10^{3}$	0.81249716×10	2728857600/187 $=0.14592821\times10^{8}$

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TABLE 6

VALUES OF q_1', q_2', D', q_1'', q_2'', AND D''

n/m	ρ'	q_1'	q_2'	D'	$\lvert q_1'\rvert/\rho'^3$	$\lvert q_2'\rvert/\rho'^3$	D'/ρ'^5
2/2.....	1	−0.667	−0.167	0.5	0.7	0.2	0.5
4/5.....	0.8	+ .610	+ .317	.293	1.2	.6	.9
2/3.....	0.667	+ .167	+ .111	.056	0.6	.4	.4
2/4.....	0.5	− .0667	− .0542	.0125	0.5	.4	.4
2/5.....	0.4	+ .0333	+ .0293	.0040	0.5	.5	.4
2/6.....	0.333	− .01905	− .01746	.0016	0.5	.5	.4
2/7.....	0.286	+ .011905	+ .011176	.00073	0.5	.5	.4
2/8.....	0.25	−0.0079365	−0.0075645	0.000372	0.5	0.5	0.4

m/n	ρ''	q_1''	q_2''	D''	D''/ρ''^2
3/4.....	0.75	+1.0125	−0.3375	1.35	2.4
4/6.....	.67	−1.5238	+1.0476	2.5714	5.8
1/2.....	.50	+0.03125	+0.2500	0.21875	8.75
2/6.....	.33	+0.1333	−0.7667	0.9000	8.1
1/4.....	.25	−0.0208	+0.2292	0.2500	4.0
1/6.....	.18	−0.0052	+0.1354	0.1406	5.1
1/8.....	0.125	−0.0021	+0.0979	0.1000	6.4

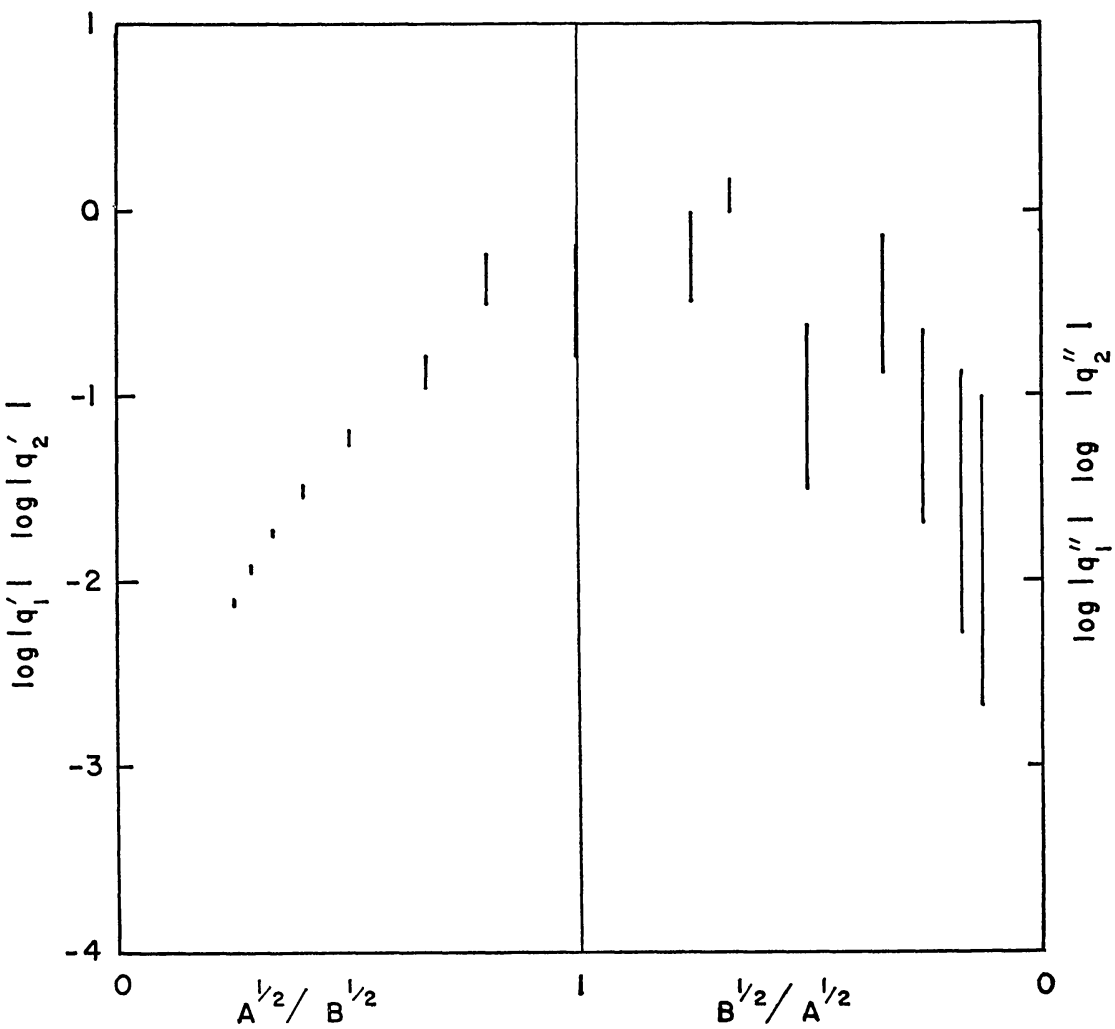

FIG. 4.—Values of log $|q_1'|$, log $|q_2'|$ for $\rho' < 1$ and log $|q_1''|$, log $|q_2''|$ for $\rho'' < 1$

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The formulae (47) and (49) are useful in estimating the resonance regions.

As has been proved previously (Contopoulos 1965), when the ratio $A^{1/2}/B^{1/2}$ is in a certain region near n/m, we have at least two periodic orbits that make n oscillations along the x-axis while they make m oscillations along the y-axis. One of these periodic orbits is stable, i.e., the orbits whose initial conditions are near those of the periodic orbit are "tube" orbits that remain always near the periodic orbit.

These resonance phenomena occur when the quantity $A^{1/2}/B^{1/2} - n/m$ is between $\mp 2h\epsilon^2 q_1/mB^{1/2}$ and $\mp 2h\epsilon^2 q_2/mB^{1/2}$ ($-$ if $m + n =$ odd, $+$ if $m + n =$ even).

If $A^{1/2}/B^{1/2} < 1$ we write these quantities

$$\mp \frac{q_1' n \bar{\epsilon}^{*2}}{m^2} \quad \text{and} \quad \mp \frac{q_2' n \bar{\epsilon}^{*2}}{m^2}, \tag{50}$$

where $\bar{\epsilon}^* = \epsilon(2h)^{1/2}/A^{3/2}$ is the small parameter.

As q_i' are positive for $m + n =$ odd and negative for $m + n =$ even, we conclude that $A^{1/2}/B^{1/2} - n/m$ is always negative. If we use the formulae (47) we find that resonant phenomena occur for a range of values of $A^{1/2}/B^{1/2}$ equal to

$$D \frac{A^{1/2}}{B^{1/2}} = \frac{0.8n^5}{m^7} \bar{\epsilon}^{*2}, \tag{51}$$

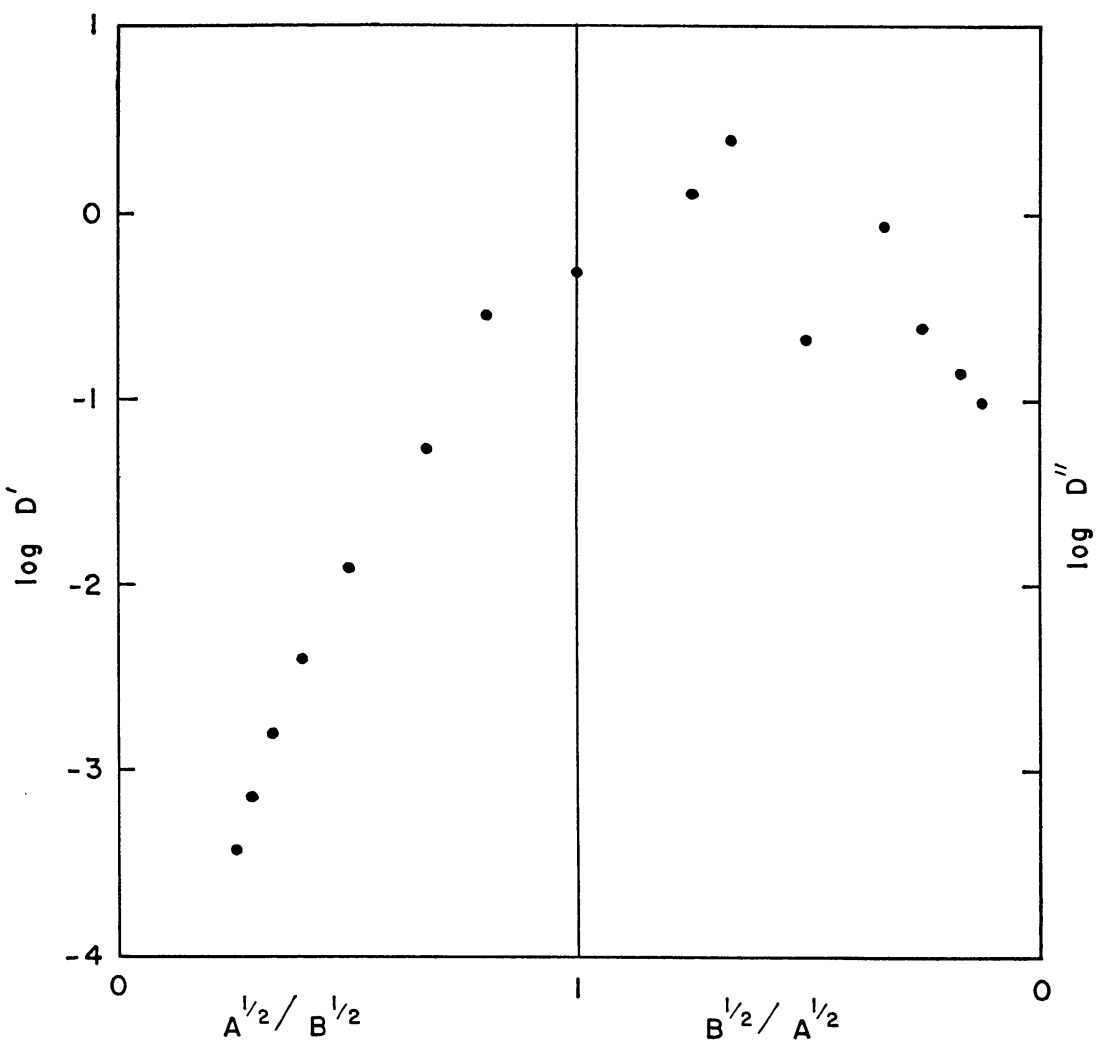

FIG. 5.—Values of log D' for $\rho' < 1$ and log D'' for $\rho'' < 1$

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near a value

$$\frac{A^{1/2}}{B^{1/2}} \simeq \frac{n}{m} - \frac{n^2}{m^5} \bar{\epsilon}^{*2}. \tag{52}$$

This means that the resonance region does not include the resonance n/m itself.

If these relations are verified for larger n and m also, the total measure of the resonance regions $\Sigma D(A^{1/2}/B^{1/2})$ may not be small because

$$\sum_{n<m} n^5 = O(m^6), \quad \text{and} \quad \sum^{\infty} \frac{1}{m} = \infty .$$

If $A^{1/2}/B^{1/2} > 1$, we write the limits

$$\mp \frac{q_1'' \bar{\epsilon}^{*2}}{m}, \qquad \mp \frac{q_2'' \bar{\epsilon}^{*2}}{m}, \tag{53}$$

where now $\bar{\epsilon}^* = \epsilon(2h)^{1/2}/B^{3/2}$.

The resonance region includes the resonance n/m (the case $\frac{2}{1}$ is a special case). One limit is usually very near n/m, and the other is more distant. The range of the resonance region is roughly

$$D \frac{A^{1/2}}{B^{1/2}} \simeq \frac{5m}{n^2} \bar{\epsilon}^{*2}. \tag{54}$$

If this formula is verified for large n also ($m < n$), then probably the total measure of the resonance regions is large because

$$\sum_{m<n} m = O(n^2).$$

All these results are not definite because we do not have an asymptotic formula for the secular terms when $n \to \infty$ or $m \to \infty$. They indicate, however, that resonance phenomena probably occur in most cases.

If $\bar{\epsilon}^*$ increases, the resonance region increases. If $A^{1/2}/B^{1/2}$ has a fixed value, then we can approximate it by rationals. If $\bar{\epsilon}^*$ is not very small, $A^{1/2}/B^{1/2}$ may be within the resonance regions corresponding to many rational numbers near $A^{1/2}/B^{1/2}$. Then we may have more than one kind of tube orbits. If, however, $\bar{\epsilon}^*$ decreases, these orbits disappear if $A^{1/2}/B^{1/2} < 1$ and they are not continued down to the value $\bar{\epsilon}^* = 0$; if $A^{1/2}/B^{1/2} > 1$ they exist also when $\bar{\epsilon}^* \to 0$.

For a given value of $A^{1/2}/B^{1/2}$ the range of initial conditions for which we have tube orbits is of the order of $\bar{\epsilon}^{*(m+n-4)/2}$ (Contopoulos 1965). Then one can find theoretically, by means of the third integral, the statistics of the different types of orbits. In one example studied in detail ($n/m = \frac{4}{1}$) it was found that tube orbits occur only for a narrow range of initial conditions. However, no other resonances were considered in detail. A more complete investigation of the statistics of the resonant orbits for different values of $A^{1/2}/B^{1/2}$ would be very useful.

The program that gives the terms of the third integral was developed with the IBM 1620 computer of the University of Thessaloniki. The final form of the program and the tables were prepared while the author was a National Academy of Sciences–National Research Council senior research associate at the Institute for Space Studies, New York, with the IBM 7094 computer. I wish to thank Dr. R. Jastrow for the use of the computing facilities and Messrs. M. Moutsoulas and B. Goldstein for much help throughout the extensive calculations. The program is available by the author upon request.

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Dr. F. Gustavson has developed recently a program to find the third integral for any Hamiltonian in the form of a series. His method is different from mine and it seems to be more efficient in the resonance cases. His results will be published later.

REFERENCES

Contopoulos, G. 1960, *Z. f. Ap.*, **49**, 273.
———. 1963, *A.J.* **68**, 763.
———. 1965, *ibid.*, **70**, 526.
Contopoulos, G., and Moutsoulas, M. 1965, *A.J.*, **70**, 81.

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TABLE 1

COEFFICIENTS OF THE THIRD INTEGRAL

					SA= 0.02 SB= 1.00 A= 0.0004 B= 1.0000	SA= 0.04 SB= 1.00 A= 0.0016 B= 1.0000	SA= 0.06 SB= 1.00 A= 0.0036 B= 1.0000	SA= 0.08 SB= 1.00 A= 0.0064 B= 1.0000
2	0	2	0	0	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01
2	2	0	0	0	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01
2 TERMS OF DEGREE 2								
3	0	1	1	1	5.00050005000500D-01	5.00200080032013D-01	5.00450405364828D-01	5.00801282051282D-01
3	1	0	0	2	-2.50025002500250D 01	-1.25050020008003D 01	-8.34084008941381D 00	-6.26001602564102D 00
3	1	0	2	0	-2.49974997499750D 01	-1.24949979991997D 01	-8.32582657725286D 00	-6.23998397435897D 00
3 TERMS OF DEGREE 3								
4	0	0	0	4	4.68796879687969D-02	4.68937575030012D-02	4.69172255029526D-02	4.69501201923077D-02
4	0	0	2	2	9.37593759375937D-02	9.37875150060024D-02	9.38344510059053D-02	9.39002403846154D-02
4	0	0	4	0	-7.81328132813281D-02	-7.81562625050020D-02	-7.81953758382544D-02	-7.82502003205128D-02
4	0	2	0	2	3.12906440704094D 02	7.85320137670452D 01	3.51301942746286D 01	1.99405703715316D 01
4	0	2	2	0	3.12156065546531D 02	7.77805112429587D 01	3.43768064704864D 01	1.91845297887248D 01
4	1	1	1	1	7.50375157563775D 01	3.75751262043279D 01	2.51129268047385D 01	1.89010145701722D 01
4	2	0	0	2	-1.56303145320534D 03	-3.91157063787053D 02	-1.74144195764858D 02	-9.81907706920444D 01
4	2	0	2	0	9.37968946954719D 02	2.34844538777049D 02	1.04637195019744D 02	5.90656705317880D 01
8 TERMS OF DEGREE 4								
5	0	1	1	3	3.12140401070690D 02	7.77647280665270D 01	3.43608245458262D 01	1.91682676843906D 01
5	0	1	3	1	3.11671404872308D 02	7.72949920153678D 01	3.38898511992343D 01	1.86955532343563D 01
5	0	3	1	1	-3.14815550017987D 02	-8.04497379318046D 01	-3.70624006321481D 01	-2.18933162532442D 01
5	1	0	0	4	-1.56070200535345D 04	-1.94411820166318D 03	-5.72680409097103D 02	-2.39603346054882D 02
5	1	0	2	2	-3.12202946406521D 04	-3.89137048451532D 03	-1.14745780849136D 03	-4.80787467412004D 02
5	1	0	4	0	-1.56320363110377D 04	-1.95665076176374D 03	-5.81062695695642D 02	-2.45918829288666D 02
5	1	2	0	2	1.57407775008994D 04	2.01124344829512D 03	6.17706677202470D 02	2.73666453165553D 02
5	1	2	2	0	-1.57407775008994D 04	-2.01124344829512D 03	-6.17706677202471D 02	-2.73666453165553D 02
5	2	1	1	1	9.07332324444422D 03	2.27648059905183D 03	1.01785437545157D 03	5.77393113655319D 02
5	3	0	0	2	-1.40728202406804D 05	-1.76298426932352D 04	-5.24294207881816D 03	-2.22336033812013D 03
5	3	0	2	0	1.56656761461748D 04	1.97354010809854D 03	5.92400077940669D 02	2.54504653727194D 02
11 TERMS OF DEGREE 5								
6	0	0	0	6	2.92387357150448D 01	7.26597783690570D 00	3.19679743936954D 00	1.77240455113900D 00
6	0	0	2	4	8.77162071451344D 01	2.17979335107171D 01	9.59039231810863D 00	5.31721365341698D 00
6	0	0	4	2	9.68110687746184D 00	2.35675149408534D 00	1.00018618165210D 00	5.25146732319344D-01
6	0	0	6	0	-4.87181985195641D 01	-1.20969148378662D 01	-5.31491313932169D 00	-2.94087662828626D 00
6	0	2	0	4	1.94274257840097D 05	1.19451445938141D 04	2.29313084354002D 03	6.95097130242069D 02
6	0	2	2	2	3.87769073395652D 05	2.36967935272850D 04	4.50128831380430D 03	1.34322008648813D 03
6	0	2	4	0	1.93887850108443D 05	1.18517246868903D 04	2.25399647643655D 03	6.74996962015845D 02
6	0	4	0	2	2.00334581261453D 06	1.25467355104305D 05	2.48667322722843D 04	7.90341003538274D 03
6	0	4	2	0	2.00382480976714D 06	1.25594875657275D 05	2.49292941720552D 04	7.94339425856001D 03
6	1	1	1	3	7.79442284543042D 04	9.67478301716527D 03	2.83244577585839D 03	1.17435434990024D 03
6	1	1	3	1	4.65596503791585D 04	5.70093802009896D 03	1.62963206264713D 03	6.51653420907668D 02

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TABLE 1--Continued

					SA= 0.02 SB= 1.00 A= 0.0004 B= 1.0000	SA= 0.04 SB= 1.00 A= 0.0016 B= 1.0000	SA= 0.06 SB= 1.00 A= 0.0036 B= 1.0000	SA= 0.08 SB= 1.00 A= 0.0064 B= 1.0000
6	1	3	1	1	-4.78997152610102D 04	-6.37602764852082D 03	-2.08539665902956D 03	-9.99605579431617D 02
6	2	0	0	4	-1.75433145351751D 06	-1.08989643120752D 05	-2.13105839552799D 04	-6.64461755663441D 03
6	2	0	2	2	-3.86479454043568D 05	-2.33739704148426D 04	-4.35750059747716D 03	-1.26209363652871D 03
6	2	0	4	0	1.36573947245161D 06	8.50851661358998D 04	1.67155273965276D 04	5.24748131439002D 03
6	2	2	0	2	5.20418450675432D 06	3.30635055815120D 05	6.71117700364816D 04	2.20543549422131D 04
6	2	2	2	0	3.59719561305399D 06	2.21770491915418D 05	4.27753941389051D 04	1.30600843102418D 04
6	3	1	1	1	1.04913840508547D 06	1.31997163767252D 05	3.95385291649806D 04	1.69388052775057D 04
6	4	0	0	2	-1.05121378101912D 07	-6.59664745637764D 05	-1.31187986502511D 05	-4.19065890210989D 04
6	4	0	2	0	3.57117381454007D 06	2.24467332299338D 05	4.47629053330431D 04	1.43549716430045D 04
20 TERMS OF DEGREE 6								
7	0	1	1	5	1.93769780015997D 05	1.18215422061810D 04	2.24008497726829D 03	6.66774912310064D 02
7	0	1	3	3	3.87248800968689D 05	2.35720623650254D 04	4.44985558758114D 03	1.31750192852794D 03
7	0	1	5	1	1.93636140659501D 05	1.17904560329105D 04	2.22801125997242D 03	6.61380921668878D 02
7	0	3	1	3	3.61780454203367D 06	2.26984485910873D 05	4.51393377689598D 04	1.44275605009267D 04
7	0	3	3	1	3.61904976768722D 06	2.27306988714536D 05	4.52911602765443D 04	1.45198817693943D 04
7	0	5	1	1	-2.00231775177992D 06	-1.25167169164949D 05	-2.46959844954939D 04	-7.78167880437796D 03
7	1	0	0	6	-9.68848900079983D 06	-2.95538555154525D 05	-3.73347496211381D 04	-8.33468640387580D 03
7	1	0	2	4	-2.90723009253139D 07	-8.87469131294986D 05	-1.12256726058033D 05	-2.51103185564704D 04
7	1	0	4	2	-2.90986223591371D 07	-8.90742003101163D 05	-1.13217769412121D 05	-2.55104874467104D 04
7	1	0	6	0	-9.70697797786928D 06	-2.97824833521753D 05	-3.79996948816780D 04	-8.60766252953515D 03
7	1	2	0	4	-1.80890227101683D 08	-5.67461214777184D 06	-7.52322296149329D 05	-1.80344506261584D 05
7	1	2	2	2	-4.00855946370939D 08	-1.25709232207052D 07	-1.66537327686485D 06	-3.98632549336671D 05
7	1	2	4	0	-2.19812473569067D 08	-6.87681284786413D 06	-9.07100273527940D 05	-2.15671190810571D 05
7	1	4	0	2	1.00115887588996D 08	3.12917922912373D 06	4.11666408258234D 05	9.72709850547252D 04
7	1	4	2	0	-1.00115887588996D 08	-3.12917922912372D 06	-4.11666408258232D 05	-9.72709850547252D 04
7	2	1	1	3	1.64587367907181D 07	1.02008837336945D 06	1.98597256601025D 05	6.14998445188888D 04
7	2	1	3	1	8.62572467760105D 06	5.26631486361406D 05	9.98104301831260D 04	2.96390537967818D 04
7	2	3	1	1	-1.01460985524883D 07	-6.88150347107441D 05	-1.54387615011167D 05	-5.74952066999340D 04
7	3	0	0	4	-3.94905764579757D 08	-1.22838112099267D 07	-1.60486628966080D 06	-3.76479023003093D 05
7	3	0	2	2	-4.38780651088105D 08	-1.36482563403108D 07	-1.78306906460492D 06	-4.18267174393710D 05
7	3	0	4	0	-2.00285508819758D 08	-6.26751188586254D 06	-8.27296998183006D 05	-1.96999336983687D 05
7	3	2	0	2	3.02589492660134D 08	9.90682519806033D 06	1.40659751662857D 06	3.69258007989359D 05
7	3	2	2	0	-2.22756633891784D 08	-7.25014701117664D 06	-1.02041295014162D 06	-2.65132426798566D 05
7	4	1	1	1	1.15582322997766D 08	7.29912997068096D 06	1.46713816835939D 06	4.75825852678780D 05
7	5	0	0	2	-1.03478743291361D 09	-3.25329197741807D 07	-4.32782155454655D 06	-1.04186142850121D 06
7	5	0	2	0	1.75821713354841D 07	5.96300107121162D 05	8.91254739212760D 04	2.48363311334159D 04
26 TERMS OF DEGREE 7								
8	0	0	0	8	1.81561434777647D 04	1.10593551255964D 03	2.09052553045134D 02	6.20384672665701D 01
8	0	0	2	6	7.26245739110590D 04	4.42374205023856D 03	8.36210212180536D 02	2.48153869066281D 02

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TABLE 1--Continued

					SA= 0.02 SB= 1.00 A= 0.0004 B= 1.0000	SA= 0.04 SB= 1.00 A= 0.0016 B= 1.0000	SA= 0.06 SB= 1.00 A= 0.0036 B= 1.0000	SA= 0.08 SB= 1.00 A= 0.0064 B= 1.0000
8	0	0	4	4	6.04944158625892D 04	3.68022752381259D 03	6.94294073953731D 02	2.05537075521905D 02
8	0	0	6	2	-2.42118562530553D 04	-1.47519204496250D 03	-2.78779881961035D 02	-8.25589377400533D 01
8	0	0	8	0	-3.02574816457015D 04	-1.84260501535444D 03	-3.48196377986811D 02	-1.03312349643623D 02
8	0	2	0	6	-2.38388977614022D 09	-3.74126190312767D 07	-3.30836393393149D 06	-5.94678312254484D 05
8	0	2	2	4	-7.15034284855088D 09	-1.12153432989747D 08	-9.90791776192893D 06	-1.77838231158333D 06
8	0	2	4	2	-7.15153546182200D 09	-1.12227308828532D 08	-9.92231055478592D 06	-1.78286038006350D 06
8	0	2	6	0	-2.38508326680411D 09	-3.74867204814034D 07	-3.32286174967791D 06	-5.99219334050687D 05
8	0	4	0	4	5.32186537321989D 09	8.22699151570974D 07	7.09117805431609D 06	1.22860715151678D 06
8	0	4	2	2	1.06344937964173D 10	1.63960777327198D 08	1.40672893357956D 07	2.42042222428935D 06
8	0	4	4	0	5.31693816777507D 09	8.19602628875289D 07	7.02928291793440D 06	1.20857866119005D 06
8	0	6	0	2	1.34178156651586D 10	2.10624187420069D 08	1.86347297897576D 07	3.35310853767929D 06
8	0	6	2	0	1.34208158717841D 10	2.10810833467438D 08	1.86710604434708D 07	3.36417652008766D 06
8	1	1	1	5	-1.32647986977323D 08	-4.22120520416297D 06	-5.72467995518392D 05	-1.41315629503019D 05
8	1	1	3	3	-3.04148027081076D 08	-9.63625256483543D 06	-1.29744736464859D 06	-3.17130094776205D 05
8	1	1	5	1	-1.71423606120544D 08	-5.40539336966061D 06	-7.22068205567176D 05	-1.74555014138293D 05
8	1	3	1	3	9.23695002253077D 08	2.89526493498581D 07	3.83555909455255D 06	9.19801968605471D 05
8	1	3	3	1	5.62325524657368D 08	1.76584737526274D 07	2.34911537218583D 06	5.67977473004562D 05
8	1	5	1	1	-3.00020662552244D 08	-9.33230236845526D 06	-1.21102179043747D 06	-2.76699560209295D 05
8	2	0	0	6	9.32309898292848D 08	1.53524460207604D 07	1.46220269538844D 06	2.88544372139387D 05
8	2	0	2	4	5.70214991524871D 09	9.03036972313766D 07	8.10290900841358D 06	1.48508197152872D 06
8	2	0	4	2	8.60374458344701D 09	1.34325769177135D 08	1.17756888523947D 07	2.09112237241524D 06
8	2	0	6	0	3.83585990698691D 09	5.94971485738731D 07	5.15934907940227D 06	9.02360943706358D 05
8	2	2	0	4	-1.24486443098871D 10	-1.97368286559031D 08	-1.77806363459724D 07	-3.29154800075063D 06
8	2	2	2	2	1.12265755883605D 10	1.69398267011474D 08	1.39573433146850D 07	2.24286012991819D 06
8	2	2	4	0	2.56559787916659D 10	3.99043541192500D 08	3.47758630247628D 07	6.13005962855889D 06
8	2	4	0	2	4.77539635592819D 10	7.48526341865899D 08	6.59960376229186D 07	1.17886978643460D 07
8	2	4	2	0	3.77677254309960D 10	5.94008201524717D 08	5.27824398810706D 07	9.57904462213894D 06
8	3	1	1	3	2.72973540898335D 09	8.43922268106705D 07	1.09044895018728D 07	2.51371181577016D 06
8	3	1	3	1	1.07671852303439D 09	3.24846601258519D 07	4.01179592593790D 06	8.57955941897074D 05
8	3	3	1	1	-1.34505545804447D 09	-4.79008558641648D 07	-7.66965705917163D 06	-2.31217746835801D 06
8	4	0	0	4	-4.03460147672355D 10	-6.26135560846206D 08	-5.43256910974563D 07	-9.50112342465708D 06
8	4	0	2	2	-1.68357926442975D 09	-2.22021561635314D 07	-1.33316153246957D 06	-7.77472265287213D 04
8	4	0	4	0	2.10737309340561D 10	3.28605394534593D 08	2.87446293739798D 07	5.08766872232526D 06
8	4	2	0	2	6.45671567848378D 10	1.04790669101693D 09	9.79529420361337D 07	1.90142524529647D 07
8	4	2	2	0	3.36371553960504D 10	5.09674835844762D 08	4.22682597749619D 07	6.84530305695250D 06
8	5	1	1	1	1.26140091806541D 10	4.00165439173009D 08	5.40521949215157D 07	1.33001895003766D 07
8	6	0	0	2	-8.35943575771717D 10	-1.31805376621523D 09	-1.17494005214388D 08	-2.13706439747963D 07
8	6	0	2	0	2.00105258059958D 10	3.16595531277262D 08	2.83882791181425D 07	5.20789931774893D 06

40 TERMS OF DEGREE 8

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TABLE 1--Continued

					SA= 0.10 SB= 1.00 A= 0.0100 B= 1.0000	SA= 0.12 SB= 1.00 A= 0.0144 B= 1.0000	SA= 0.14 SB= 1.00 A= 0.0196 B= 1.0000	SA= 0.16 SB= 1.00 A= 0.0256 B= 1.00CC
2	0	2	0	0	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01
2	2	0	0	0	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01
2 TERMS OF DEGREE 2								
3	0	1	1	1	5.01253132832080D-01	5.01806503412284D-01	5.02462064114159D-01	5.03220611916264D-01
3	1	0	0	2	-5.01253132832080D 00	-4.18172086176903D 00	-3.58901474367257D 00	-3.14512882447665D 00
3	1	0	2	0	-4.98746867167920D 00	-4.15161247156430D 00	-3.55384239918458D 00	-3.10487117552335D 00
3 TERMS OF DEGREE 3								
4	0	0	0	4	4.69924812030075D-02	4.70443596949016D-02	4.71058185107024D-02	4.71769323671498D-02
4	0	0	2	2	9.39849624060150D-02	9.40887193898032D-02	9.42116370214048D-02	9.43538647342995D-02
4	0	0	4	0	-7.83208020050125D-02	-7.84072661581694D-02	-7.85096975178374D-02	-7.86282206119162D-02
4	0	2	0	2	1.29110655426445D 01	9.09377203097094D 00	6.79333530341940D 00	5.30159492426406D 00
4	0	2	2	0	1.21515910989595D 01	8.33006489306669D 00	6.02457449541120D 00	4.52693265222547D 00
4	1	1	1	1	1.51894888736994D 01	1.27284522984041D 01	1.09822972572600D 01	9.68327840048229D 00
4	2	0	0	2	-6.30363788258525D 01	-4.39414458790462D 01	-3.24291549010806D 01	-2.49586500772431D 01
4	2	0	2	0	3.79737221842485D 01	2.65176089550086D 01	1.96112451022500D 01	1.51301225007536D 01
8 TERMS OF DEGREE 4								
5	0	1	1	3	1.21349654199751D 01	8.31298967426312D 00	6.00696055904234D 00	4.50868692020592D 00
5	0	1	3	1	1.16599970374329D 01	7.83524274083288D 00	5.52589574964571D 00	4.02374709646382D 00
5	0	3	1	1	-1.48906821295155D 01	-1.11069565835189D 01	-8.84725492454515D 00	-7.40400568810473D 00
5	1	0	0	4	-1.21349654199751D 02	-6.92749139521927D 01	-4.29068611360168D 01	-2.81792932512870D 01
5	1	0	2	2	-2.43972259376624D 02	-1.39619193847093D 02	-8.67391155617778D 01	-5.71773148581363D 01
5	1	0	4	0	-1.26431851604861D 02	-7.35407253775042D 01	-4.65946660084049D 01	-3.14382387999196D 01
5	1	2	0	2	1.48906821295155D 02	9.25579715293240D 01	6.31946780324655D 01	4.62750355506547D 01
5	1	2	2	0	-1.48906821295155D 02	-9.25579715293240D 01	-6.31946780324655D 01	-4.62750355506547D 01
5	2	1	1	1	3.73587294179932D 02	2.62948530756379D 02	1.96312752421934D 02	1.53144832392897D 02
5	3	0	0	2	-1.14601976640300D 03	-6.68707271081505D 02	-4.25281529935343D 02	-2.88201710451432D 02
5	3	0	2	0	1.33387174823043D 02	7.94270720813144D 01	5.17340041782004D 01	3.60330021055388D 01
11 TERMS OF DEGREE 5								
6	0	0	0	6	1.11291507153193D 00	7.54460129179342D-01	5.38097093587479D-01	3.97432116282737D-01
6	0	0	2	4	3.33874521459578D 00	2.26338038753803D 00	1.61429128076243D 00	1.19229634884821D 00
6	0	0	4	2	3.05003859602005D-01	1.85132968972247D-01	1.12551141001849D-01	6.51246187967318D-02
6	0	0	6	0	-1.84166488637148D 00	-1.24416280048140D 00	-8.83465577940335D-01	-6.48916309811726D-01
6	0	2	0	4	2.67912312350693D 02	1.18722906934509D 02	5.69387975709833D 01	2.81620915667450D 01
6	0	2	2	2	5.06457069997585D 02	2.17662490675714D 02	9.98950442011915D 01	4.61300252603159D 01
6	0	2	4	0	2.56660716203330D 02	1.12319967449630D 02	5.35048533158120D 01	2.67040111706999D 01
6	0	4	0	2	3.25485657417290D 03	1.57921669069653D 03	8.57803939910598D 02	5.05831936833463D 02
6	0	4	2	0	3.28457137515346D 03	1.60355591933621D 03	8.79128402701256D 02	5.25453387234327D 02
6	1	1	1	3	5.87351094076034D 02	3.29722053221735D 02	1.99750727725358D 02	1.27426973414679D 02
6	1	1	3	1	3.09433215703942D 02	1.61383177528847D 02	8.79459993769302D 01	4.78501431384121D 01

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TABLE 1--Continued

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6	2	0	0	4	-2.66884315802948D 03	-1.25511898148938D 03	-6.56456658591009D 02	-3.70047200354127D 02
6	2	0	2	2	-4.54332593365112D 02	-1.81290841379044D 02	-7.30204480693368D 01	-2.54179115529048D 01
6	2	0	4	0	2.12689530393130D 03	1.01195222400636D 03	5.37054808993596D 02	3.08277059714212D 02
6	2	2	0	2	9.48119324640111D 03	4.84865759248208D 03	2.80359067526289D 03	1.77812677995071D 03
6	2	2	2	0	5.08673086520316D 03	2.28820405699443D 03	1.12166456733557D 03	5.73662840376458D 02
6	3	1	1	1	8.84787701568799D 03	5.24890550414742D 03	3.40557907050403D 03	2.36317351661865D 03
6	4	0	0	2	-1.73790959160194D 04	-8.51089100406609D 03	-4.67959585969719D 03	-2.80339522974128D 03
6	4	0	2	0	5.98369326282499D 03	2.94916451087450D 03	1.63424510288585D 03	9.88180032231105D 02
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7	0	1	1	5	2.51066031486215D 02	1.08145920438278D 02	5.01803360695161D 01	2.39233025780321D 01
7	0	1	3	3	4.92708595820031D 02	2.10489886595041D 02	9.67673028940686D 01	4.57135373051549D 01
7	0	1	5	1	2.48792279697374D 02	1.07598241735287D 02	5.07070684008293D 01	2.51835897098315D 01
7	0	3	1	3	5.99418554796533D 03	2.94711416452950D 03	1.63220593664006D 03	9.89576489042561D 02
7	0	3	3	1	6.05923790564696D 03	2.99765907591996D 03	1.67434486500130D 03	1.02664295877763D 03
7	0	5	1	1	-3.15196531059162D 03	-1.48422197991772D 03	-7.64817381040646D 02	-4.10858371395898D 02
7	1	0	0	6	-2.51066031486214D 03	-9.01216003652314D 02	-3.58430971925115D 02	-1.49520641112701D 02
7	1	0	2	4	-7.58620254730404D 03	-2.73488226218961D 03	-1.09484159626137D 03	-4.61551763492463D 02
7	1	0	4	2	-7.78749751021946D 03	-2.84872108535616D 03	-1.16445372660231D 03	-5.06483669714529D 02
7	1	0	6	0	-2.64529152709287D 03	-9.75347443033113D 02	-4.02161701648533D 02	-1.76402703947303D 02
7	1	2	0	4	-5.99418554796533D 04	-2.45592847044125D 04	-1.16586138331433D 04	-6.18485305651601D 03
7	1	2	2	2	-1.32145833697365D 05	-5.39041791413123D 04	-2.54116610337579D 04	-1.33407947283690D 04
7	1	2	4	0	-7.07904759496685D 04	-2.84713716785408D 04	-1.31583481843123D 04	-6.71981618849802D 03
7	1	4	0	2	3.15196531059164D 04	1.23685164993144D 04	5.46298129314751D 03	2.56786482122437D 03
7	1	4	2	0	-3.15196531059163D 04	-1.23685164993144D 04	-5.46298129314749D 03	-2.56786482122435D 03
7	2	1	1	3	2.44475807622568D 04	1.13221670912694D 04	5.78838447445257D 03	3.15334177211632D 03
7	2	1	3	1	1.10630651728402D 04	4.65762822915173D 03	2.04663193275339D 03	8.53180237474366D 02
7	2	3	1	1	-2.84581659927349D 04	-1.69042647801841D 04	-1.14004678270863D 04	-8.44695572829955D 03
7	3	0	0	4	-1.21453172860625D 05	-4.78233206120234D 04	-2.15542770184112D 04	-1.06926973962530D 04
7	3	0	2	2	-1.34930240361958D 05	-5.31300118155911D 04	-2.39474625924390D 04	-1.18819474418835D 04
7	3	0	4	0	-6.48571868719289D 04	-2.62267464254658D 04	-1.22319193171324D 04	-6.33877794339181D 03
7	3	2	0	2	1.36886757450338D 05	6.34476463884862D 04	3.44279460744022D 04	2.10216441955899D 04
7	3	2	2	0	-9.72670228096011D 04	-4.46673773763861D 04	-2.40662051654337D 04	-1.46344533098917D 04
7	4	1	1	1	2.01305952165034D 05	1.01088734290574D 05	5.73169915544618D 04	3.56320105665806D 04
7	5	0	0	2	-3.47857201349932D 05	-1.43102165262229D 05	-6.81102380766131D 04	-3.61313555299898D 04
7	5	0	2	0	9.79001457870783D 03	4.81134219630711D 03	2.75332075644471D 03	1.76164568710270D 03
26	TERMS	OF	DEGREE	7				
8	0	0	0	8	2.32910099078189D 01	1.00160844195725D 01	4.65807564268734D 00	2.24769614567453D 00
8	0	0	2	6	9.31640396312755D 01	4.00643376782900D 01	1.86323025707494D 01	8.99078458269814D 00

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8	0	0	6	2	-3.07983982530987D 01	-1.30416301605965D 01	-5.85897058984807D 00	-2.61535539783303D 00
8	0	0	8	0	-3.87986345254464D 01	-1.67101877570600D 01	-7.80312619756567D 00	-3.80178756318719D 00
8	0	2	0	6	-1.57821659191385D 05	-5.36158047249861D 04	-2.15991713146890D 04	-9.85241958562601D 03
8	0	2	2	4	-4.71035964337070D 05	-1.59610256897259D 05	-6.40889371956989D 04	-2.91154339433752D 04
8	0	2	4	2	-4.72839759092990D 05	-1.60469906011942D 05	-6.45529890584234D 04	-2.93933568240094D 04
8	0	2	6	0	-1.59669091614184D 05	-5.45087751789963D 04	-2.20905213903582D 04	-1.01539532102144D 04
8	0	4	0	4	3.10494527000983D 05	9.91167732587224D 04	3.69740625014204D 04	1.53743854962631D 04
8	0	4	2	2	6.05653759156328D 05	1.90628459019153D 05	6.96611400971789D 04	2.80663166650590D 04
8	0	4	4	0	3.01961648519169D 05	9.47271287486892D 04	3.43563449996300D 04	1.36015548661491D 04
8	0	6	0	2	8.91700737301170D 05	3.04087521497737D 05	1.23349285318449D 05	5.69606773656848D 04
8	0	6	2	0	8.95852342777416D 05	3.05721753029227D 05	1.23855322751827D 05	5.68518127338837D 04
8	1	1	1	5	-4.85802647417088D 04	-2.06192879616513D 04	-1.01225249766874D 04	-5.52281016878473D 03
8	1	1	3	3	-1.07673776202166D 05	-4.50228836238136D 04	-2.17172168501596D 04	-1.16064871536945D 04
8	1	1	5	1	-5.84268221781766D 04	-2.40011514805538D 04	-1.13277454978674D 04	-5.89327039415794D 03
8	1	3	1	3	3.06705896912777D 05	1.26751458304864D 05	6.12426415094565D 04	3.35306790933393D 04
8	1	3	3	1	1.92207507889360D 05	8.14126078594781D 04	4.08641935788647D 04	2.36294107656326D 04
8	1	5	1	1	-8.30321095249282D 04	-2.72371921915025D 04	-7.22910619111454D 03	1.36080789751503D 03
8	2	0	0	6	8.50796645171591D 04	3.22978951152277D 04	1.45527036020516D 04	7.40636219182628D 03
8	2	0	2	4	4.03449599206120D 05	1.40717328250600D 05	5.83108614260060D 04	2.73842858037023D 04
8	2	0	4	2	5.46369910556583D 05	1.82117471005562D 05	7.17442569499426D 04	3.19010879181812D 04
8	2	0	6	0	2.31222329021881D 05	7.52757575193628D 04	2.88543506786303D 04	1.24446940131143D 04
8	2	2	0	4	-9.12540430561918D 05	-3.29897529752822D 05	-1.44775594673790D 05	-7.40346011741591D 04
8	2	2	2	2	5.00134627155982D 05	1.27868489340075D 05	2.97927645526636D 04	8.92718827388160D 02
8	2	2	4	0	1.58943010803877D 06	5.26644629406002D 05	2.07273069978879D 05	9.30400880629535D 04
8	2	4	0	2	3.09026275952815D 06	1.02575086529114D 06	3.95866092352187D 05	1.66629507417320D 05
8	2	4	2	0	2.58759301176677D 06	9.06747929117373D 05	3.84769026809698D 05	1.90857118014038D 05
8	3	1	1	3	7.89764102954861D 05	2.98858539608752D 05	1.26763110439361D 05	5.71115342483137D 04
8	3	1	3	1	2.38063067988363D 05	7.21826822310623D 04	1.88216001941962D 04	-3.58462573769779D 02
8	3	3	1	1	-9.89875611587832D 05	-5.29500906327368D 05	-3.30836721554803D 05	-2.32423323762568D 05
8	4	0	0	4	-2.43068047266811D 06	-7.87570722394645D 05	-2.98750494550040D 05	-1.26254072850070D 05
8	4	0	2	2	3.62541742365133D 04	3.69007546546798D 04	2.72089148709932D 04	1.93782119460510D 04
8	4	0	4	0	1.32305457939629D 06	4.38093772684888D 05	1.70987269785385D 05	7.50289363402018D 04
8	4	2	0	2	5.56495178849773D 06	2.12887775347315D 06	9.86645952271478D 05	5.29790950796333D 05
8	4	2	2	0	1.53581228243393D 06	3.90574679136193D 05	8.48174277854648D 04	-7.32472129662413D 03
8	5	1	1	1	4.57169206127544D 06	1.95177379352200D 06	9.72928605418906D 05	5.46408804862666D 05
8	6	0	0	2	-5.76450283929316D 06	-2.00117101762283D 06	-8.29366355693919D 05	-3.92578854799834D 05
8	6	0	2	0	1.42122579076926D 06	5.00971497692296D 05	2.11742047779877D 05	1.02775793714052D 05

40 TERMS OF DEGREE 8

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TABLE 1--Continued

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2	2	0	0	0	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01
2 TERMS OF DEGREE 2								
3	0	1	1	1	5.04083072890412D-01	5.05050505050505D-01	5.06124101629719D-01	5.07305194805195D-01
3	1	0	0	2	-2.80046151605785D 00	-2.52525252525252D 00	-2.30056409831691D 00	-2.11377164502164D 00
3	1	0	2	0	-2.75509403949771D 00	-2.47474747474747D 00	-2.24489044713764D 00	-2.05289502164502D 00
3 TERMS OF DEGREE 3								
4	0	0	0	4	4.72577880834762D-02	4.73484848484849D-02	4.74491345277862D-02	4.75598620129870D-02
4	0	0	2	2	9.45155761669523D-02	9.46969696969696D-02	9.48982690555724D-02	9.51197240259740D-02
4	0	0	4	0	-7.87629801391269D-02	-7.89141414141414D-02	-7.90818908796437D-02	-7.92664366883117D-02
4	0	2	0	2	4.28025157075122D 00	3.55113636363636D 00	3.01317721234331D 00	2.60557943650977D 00
4	0	2	2	0	3.49880819607613D 00	2.76199494949495D 00	2.21537755655875D 00	1.79811149061865D 00
4	1	1	1	1	8.68270416305657D 00	7.89141414141414D 00	7.25272414349592D 00	6.72889954909267D 00
4	2	0	0	2	-1.98383711044059D 01	-1.61773989898990D 01	-1.34702867501474D 01	-1.14129612907666D 01
4	2	0	2	0	1.20593113375786D 01	9.86426767676767D 00	8.24173198124537D 00	7.00927036363820D 00
8 TERMS OF DEGREE 4								
5	0	1	1	3	3.47983294605626D 00	2.74218700255383D 00	2.19462738249778D 00	1.77630221460196D 00
5	0	1	3	1	2.99043981579555D 00	2.24773749494643D 00	1.69448968108567D 00	1.26981138142056D 00
5	0	3	1	1	-6.43963778695794D 00	-5.77687604202754D 00	-5.31574158572287D 00	-4.99677689410636D 00
5	1	0	0	4	-1.93324052558681D 01	-1.37109350127691D 01	-9.97557901135355D 00	-7.40125922750817D 00
5	1	0	2	2	-3.94017986151129D 01	-2.80946210222526D 01	-2.05724605475012D 01	-1.53820265561472D 01
5	1	0	4	0	-2.22620920908706D 01	-1.63812620202174D 01	-1.24375701455993D 01	-9.69338166590310D 00
5	1	2	0	2	3.57757654830998D 01	2.88843802101378D 01	2.41624617532858D 01	2.08199037254432D 01
5	1	2	2	0	-3.57757654830998D 01	-2.88843802101378D 01	-2.41624617532858D 01	-2.08199037254432D 01
5	2	1	1	1	1.23635988764423D 02	1.02621669856518D 02	8.71736757775962D 01	7.55325241587222D 01
5	3	0	0	2	-2.05105024426866D 02	-1.51779862954105D 02	-1.15973019100228D 02	-9.10263477368186D 01
5	3	0	2	0	2.64485601664425D 01	2.02562939305363D 01	1.60732375093751D 01	1.31455659186165D 01
11 TERMS OF DEGREE 5								
6	0	0	0	6	3.00745113158362D-01	2.31327452968203D-01	1.79697478493953D-01	1.40148601724069D-01
6	0	0	2	4	9.02235339475086D-01	6.93982358904607D-01	5.39092435481858D-01	4.20445805172207D-01
6	0	0	4	2	3.22771029610223D-02	8.43560826615047D-03	-9.56441014258749D-03	-2.36297484782829D-02
6	0	0	6	0	-4.87647601645584D-01	-3.71811046402354D-01	-2.85603083561807D-01	-2.19511813062854D-01
6	0	2	0	4	1.35649325044406D 01	5.66637061250285D 00	1.16863865147298D 00	-1.50479184626818D 00
6	0	2	2	2	1.95583079100413D 01	5.66444265263343D 00	-1.89316912030247D 00	-6.11406398537938D 00
6	0	2	4	0	1.35141022644319D 01	6.67890437180944D 00	3.02945635593015D 00	1.06823852153014D 00
6	0	4	0	2	3.17317630033550D 02	2.08735634280142D 02	1.42399197119892D 02	9.98097064853909D 01
6	0	4	2	0	3.36057712093149D 02	2.27171599093947D 02	1.60987062441283D 02	1.18955145951279D 02
6	1	1	1	3	8.41284122093323D 01	5.66829857237232D 01	3.84586038477133D 01	2.58706691070252D 01
6	1	1	3	1	2.43284451290480D 01	9.71947972055830D 00	1.95732240195611D-01	-6.29479739400127D 00

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TABLE 1--Continued

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6	2	0	0	4	-2.20125101410371D 02	-1.36041093696805D 02	-8.62372791842392D 01	-5.54020191525708D 01
6	2	0	2	2	-3.06964003594508D 00	7.80481143414457D 00	1.31300518975619D 01	1.56547624461710D 01
6	2	0	4	0	1.87549844016800D 02	1.19206067350234D 02	7.82935565844163D 01	5.26583396570450D 01
6	2	2	0	2	1.21303285449917D 03	8.78370388905426D 02	6.68845198400756D 02	5.32005514809112D 02
6	2	2	2	0	2.92472082438112D 02	1.37865978893441D 02	4.77566923274391D 01	-7.72621107975968D 00
6	3	1	1	1	1.72900748338699D 03	1.32117571156397D 03	1.04747323302259D 03	8.57767249386615D 02
6	4	0	0	2	-1.79488285523234D 03	-1.21228444500225D 03	-8.55887892870747D 02	-6.27504794039834D 02
6	4	0	2	0	6.39672534126550D 02	4.37631755695202D 02	3.13634336400174D 02	2.33980173693381D 02
20	TERMS	OF	DEGREE	6				
7	0	1	1	5	1.10981297273820D 01	4.51514712551999D 00	1.04297685547713D 00	-7.93491333424657D-01
7	0	1	3	3	2.10932845958472D 01	8.69536851484433D 00	2.35316079064410D 00	-8.24867604704611D-01
7	0	1	5	1	1.29003403500231D 01	6.74709514930509D 00	3.63852616941019D 00	2.12836103347834D 00
7	0	3	1	3	6.45385343589145D 02	4.47845452738041D 02	3.28419298670104D 02	2.53497603128367D 02
7	0	3	3	1	6.79407755848313D 02	4.80186247283644D 02	3.60090322348564D 02	2.85335186114616D 02
7	0	5	1	1	-2.16968770118092D 02	-9.95229683773353D 01	-2.01602456209733D 01	4.09752889863655D 01
7	1	0	0	6	-6.16562762632335D 01	-2.25757356275999D 01	-4.74080388853242D 00	3.30621388926940D 00
7	1	0	2	4	-1.93994834219515D 02	-7.42155157592939D 01	-1.90085245340571D 01	6.31970766469551D 00
7	1	0	4	2	-2.24102576570314D 02	-9.48913174866965D 01	-3.33945919750624D 01	-3.70116671144479D 00
7	1	0	6	0	-7.84881343268934D 01	-3.30535679715689D 01	-1.10017570111369D 01	-3.38167065914722D-02
7	1	2	0	4	-3.58547413105080D 03	-2.23922726369020D 03	-1.49281499395502D 03	-1.05624001303486D 03
7	1	2	2	2	-7.61854309395392D 03	-4.65982460378689D 03	-3.02095390688612D 03	-2.06146489541795D 03
7	1	2	4	0	-3.69346162513490D 03	-2.14250074546072D 03	-1.29026330643895D 03	-7.93689157043745D 02
7	1	4	0	2	1.20538205621164D 03	4.97614841886681D 02	9.16374800953358D 01	-1.70730370776519D 02
7	1	4	2	0	-1.20538205621164D 03	-4.97614841886683D 02	-9.16374800953381D 01	1.70730370776519D 02
7	2	1	1	3	1.78003294487918D 03	1.01198149988922D 03	5.56610509344958D 02	2.72182794078776D 02
7	2	1	3	1	2.60224550302471D 02	-5.43609649980125D 01	-2.31436220548020D 02	-3.37905782475459D 02
7	2	3	1	1	-6.73679599415057D 03	-5.70944071608362D 03	-5.10159695698295D 03	-4.78592967585894D 03
7	3	0	0	4	-5.68667339269902D 03	-3.17945400894217D 03	-1.83855925255328D 03	-1.08219166713265D 03
7	3	0	2	2	-6.32147490012844D 03	-3.53688799395933D 03	-2.04794081845609D 03	-1.20835441309968D 03
7	3	0	4	0	-3.56422566039211D 03	-2.14048003029128D 03	-1.35824976369366D 03	-9.04121542704064D 02
7	3	2	0	2	1.40827242122647D 04	1.01792209826550D 04	7.85187566585885D 03	6.41948405543539D 03
7	3	2	2	0	-9.79829758684198D 03	-7.10656018035402D 03	-5.52431927700449D 03	-4.57289460077801D 03
7	4	1	1	1	2.38442890358818D 04	1.69731126478240D 04	1.27551296647878D 04	1.00751347558922D 04
7	5	0	0	2	-2.08605647994073D 04	-1.29014242547621D 04	-8.45482215619085D 03	-5.82815200773599D 03
7	5	0	2	0	1.22856404973700D 03	9.18731460042786D 02	7.29041133033506D 02	6.10070779969683D 02
26	TERMS	OF	DEGREE	7				
8	0	0	0	8	1.08230138659600D 00	4.93585889541547D-01	1.91278125560979D-01	3.91228264702056D-02
8	0	0	2	6	4.32920554638399D 00	1.97434355816619D 00	7.65112502243914D-01	1.56491305880823D-01

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TABLE 1--Continued

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8	0	0	4	4	3.719275887730 48D 00	1.832728555869 28D 00	8.869245394965 88D-01	4.331097921773 98D-01
8	0	0	6	2	-1.036030174154 21D 00	-2.274086046678 66D-01	1.990895612237 09D-01	4.262177955690 33D-01
8	0	0	8	0	-1.871550087291 44D 00	-9.002390448301 03D-01	-4.050433808703 46D-01	-1.594906802925 33D-01
8	0	2	0	6	-4.935823977092 59D 03	-2.656984998136 11D 03	-1.510714521388 08D 03	-8.936693538530 14D 02
8	0	2	2	4	-1.451403851680 21D 04	-7.756692252668 99D 03	-4.385015830060 58D 03	-2.572613062358 20D 03
8	0	2	4	2	-1.469721970550 08D 04	-7.899312662186 14D 03	-4.490358078245 13D 03	-2.663995117720 67D 03
8	0	2	6	0	-5.140339066556 96D 03	-2.809598543961 77D 03	-1.635392097305 17D 03	-1.004280574011 45D 03
8	0	4	0	4	6.914577300362 56D 03	3.306972291158 30D 03	1.682183426819 78D 03	9.395168481107 28D 02
8	0	4	2	2	1.198733956257 66D 04	5.232300521488 30D 03	2.232753490633 94D 03	8.666944932350 42D 02
8	0	4	4	0	5.567438324980 85D 03	2.169930249468 08D 03	6.275830460986 00D 02	-1.234284293934 78D 02
8	0	6	0	2	2.916342509578 49D 04	1.631819428311 76D 04	9.947611074127 88D 03	6.684422530010 71D 03
8	0	6	2	0	2.863467465441 31D 04	1.541776807242 15D 04	8.624831158214 00D 03	4.774881309281 52D 03
8	1	1	1	5	-3.260371271951 47D 03	-2.042627417393 50D 03	-1.337524855487 82D 03	-9.032916600070 67D 02
8	1	1	3	3	-6.685729310959 62D 03	-4.065273600727 77D 03	-2.563131378509 66D 03	-1.645685783063 35D 03
8	1	1	5	1	-3.281268217804 59D 03	-1.907964012262 96D 03	-1.130156998658 61D 03	-6.596347904854 46D 02
8	1	3	1	3	2.046461153498 33D 04	1.381644060828 32D 04	1.028739420914 21D 04	8.436160024886 80D 03
8	1	3	3	1	1.549872042122 36D 04	1.141247443495 48D 04	9.345345568083 34D 03	8.425942746300 71D 03
8	1	5	1	1	5.875004904130 62D 03	9.004262106961 57D 03	1.202527196285 34D 04	1.591284350607 66D 04
8	2	0	0	6	4.120762889439 28D 03	2.449583545347 63D 03	1.529114695629 69D 03	9.881882711617 09D 02
8	2	0	2	4	1.412406446261 66D 04	7.821759963131 54D 03	4.569511004290 83D 03	2.773514467052 54D 03
8	2	0	4	2	1.553369656539 83D 04	8.107656065715 78D 03	4.462190919627 99D 03	2.554063391009 92D 03
8	2	0	6	0	5.866099593067 89D 03	2.964317773951 81D 03	1.585726319940 95D 03	8.915677211060 33D 02
8	2	2	0	4	-4.301698855200 64D 04	-2.792715693839 15D 04	-2.001607453077 43D 04	-1.569629968895 94D 04
8	2	2	2	2	-7.793931068936 44D 03	-1.007021003128 00D 04	-1.030107020267 59D 04	-9.983000095498 39D 03
8	2	2	4	0	4.661063659743 10D 04	2.584253882309 88D 04	1.588777314555 57D 04	1.093070156948 98D 04
8	2	4	0	2	7.117081722032 52D 04	2.644392758194 85D 04	2.512669670444 17D 03	-1.309848971429 41D 04
8	2	4	2	0	1.089200490092 22D 05	7.125203369410 22D 04	5.362119102701 48D 04	4.676502468726 86D 04
8	3	1	1	3	2.578741478373 79D 04	1.048457870262 03D 04	2.441975846443 66D 03	-2.134948489481 52D 03
8	3	1	3	1	-7.684729396785 18D 03	-1.056379411665 61D 04	-1.174860510762 75D 04	-1.237026445427 34D 04
8	3	3	1	1	-1.796244945923 91D 05	-1.509404115917 99D 05	-1.373566356905 09D 05	-1.358140422447 57D 05
8	4	0	0	4	-5.732434814230 59D 04	-2.706930184747 11D 04	-1.278300981816 40D 04	-5.624245167936 43D 03
8	4	0	2	2	1.404269088368 06D 04	1.049893435416 33D 04	8.130947753204 05D 03	6.531843630933 57D 03
8	4	0	4	0	3.583376536072 81D 04	1.816243927908 95D 04	9.539340081558 69D 03	5.039732313819 33D 03
8	4	2	0	2	3.206492819319 79D 05	2.151194420716 97D 05	1.585997556823 86D 05	1.283744709573 27D 05
8	4	2	2	0	-3.659551455813 28D 04	-4.605547184460 09D 04	-4.976344708221 11D 04	-5.316340754807 74D 04
8	5	1	1	1	3.383810432901 29D 05	2.282011612244 17D 05	1.666451365732 46D 05	1.319152047255 51D 05
8	6	0	0	2	-2.064326868468 68D 05	-1.184611536631 15D 05	-7.337973035833 04D 04	-4.881629074030 16D 04
8	6	0	2	0	5.580566037599 12D 04	3.337320500694 70D 04	2.181325426646 16D 04	1.558146722456 45D 04

40 TERMS OF DEGREE 8

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TABLE 1--Continued

					SA= 0.26 SB= 1.00 A= 0.0676 B= 1.0000	SA= 0.28 SB= 1.00 A= 0.0784 B= 1.0000	SA= 0.30 SB= 1.00 A= 0.0900 B= 1.0000	SA= 0.32 SB= 1.00 A= 0.1024 B= 1.0000
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2	2	0	0	0	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01
2 TERMS OF DEGREE 2								
3	0	1	1	1	5.08595259892178D-01	5.09995920032640D-01	5.11508951406650D-01	5.13136288998358D-01
3	1	0	0	2	-1.95613561496991D 00	-1.82141400011657D 00	-1.70502983802216D 00	-1.60355090311987D 00
3	1	0	2	0	-1.89001823118393D 00	-1.75001457131200D 00	-1.62830349531117D 00	-1.52144909688013D 00
3 TERMS OF DEGREE 3								
4	0	0	0	4	4.76808056148917D-02	4.78121175030600D-02	4.79539641943734D-02	4.81065270935961D-02
4	0	0	2	2	9.53616112297833D-02	9.56242350061199D-02	9.59079283887468D-02	9.62130541871921D-02
4	0	0	4	0	-7.94680093581528D-02	-7.96868625050999D-02	-7.99232736572890D-02	-8.01775451559934D-02
4	0	2	0	2	2.29000135105626D 00	2.04129824231814D 00	1.84243150995069D 00	1.68153106903028D 00
4	0	2	2	0	1.47179790850127D 00	1.21122675789002D 00	9.99284886752917D-01	8.24017217094518D-01
4	1	1	1	1	6.29387263503833D 00	5.92908203162946D 00	5.62097748798516D 00	5.35946157459849D 00
4	2	0	0	2	-9.81359987017131D 00	-8.54634824273447D 00	-7.52586430335791D 00	-6.69262764127986D 00
4	2	0	2	0	6.05180061061378D 00	5.29382324252630D 00	4.68414790665430D 00	4.18707935515507D 00
8 TERMS OF DEGREE 4								
5	0	1	1	3	1.44880420001381D 00	1.18691357954346D 00	9.73506076198046D-01	7.96613869981258D-01
5	0	1	3	1	9.35257312818543D-01	6.65564290258389D-01	4.43558481479144D-01	2.57215563359027D-01
5	0	3	1	1	-4.78327963835194D 00	-4.65212376201962D 00	-4.58877173671574D 00	-4.58447660920646D 00
5	1	0	0	4	-5.57232846206695D 00	-4.23897706979808D 00	-3.24502025399349D 00	-2.48941834369143D 00
5	1	0	2	2	-1.16898540020258D 01	-8.99481648850380D 00	-6.98340078581558D 00	-5.45271005685581D 00
5	1	0	4	0	-7.72437886224615D 00	-6.27460437686303D 00	-5.18337097342230D 00	-4.34630897134378D 00
5	1	2	0	2	1.83972293782767D 01	1.66147277214987D 01	1.52959057890525D 01	1.43264894037702D 01
5	1	2	2	0	-1.83972293782767D 01	-1.66147277214986D 01	-1.52959057890525D 01	-1.43264894037702D 01
5	2	1	1	1	6.65907103441198D 01	5.96245061860899D 01	5.41466252119275D 01	4.98214401677565D 01
5	3	0	0	2	-7.31078859838666D 01	-5.99050698357746D 01	-4.99656463761067D 01	-4.23463405722329D 01
5	3	0	2	0	1.10381361314175D 01	9.48770562123840D 00	8.32877609473514D 00	7.45401261260729D 00
11 TERMS OF DEGREE 5								
6	0	0	0	6	1.09078160043208D-01	8.41195392652687D-02	6.36647574186240D-02	4.65888885075017D-02
6	0	0	2	4	3.27234480129623D-01	2.52358617795806D-01	1.90994272255872D-01	1.39766665522505D-01
6	0	0	4	2	-3.49665698738286D-02	-4.43697770900596D-02	-5.23822467936395D-02	-5.93868019728092D-02
6	0	0	6	0	-1.67531742094367D-01	-1.25717307406418D-01	-9.13871625110704D-02	-6.26648612174409D-02
6	0	2	0	4	-3.15843964341264D 00	-4.22574136859941D 00	-4.95145365833525D 00	-5.47995641571086D 00
6	0	2	2	2	-8.50954773956897D 00	-9.88132340480941D 00	-1.06734519761819D 01	-1.11414574025181D 01
6	0	2	4	0	4.23551172363048D-02	-4.45649797981311D-01	-6.13599017011354D-01	-5.83999382395210D-01
6	0	4	0	2	7.12407599047491D 01	5.12705211203359D 01	3.67121765039392D 01	2.55882543723715D 01
6	0	4	2	0	9.13477504878173D 01	7.27831298268673D 01	6.01600574906467D 01	5.16468148764305D 01
6	1	1	1	3	1.68666804057207D 01	1.02131476257901D 01	5.13696439674295D 00	1.13465356935230D 00
6	1	1	3	1	-1.09179885885668D 01	-1.43702726129813D 01	-1.70873089139042D 01	-1.93546482744874D 01

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TABLE 1--Continued

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6	1	3	1	1	-1.54669158331295D 02	-1.53661490760939D 02	-1.56319206578049D 02	-1.62866003150369D 02
6	2	0	0	4	-3.55943635005679D 01	-2.24635049860817D 01	-1.35130609862402D 01	-7.25285261782384D 00
6	2	0	2	2	1.67320006240225D 01	1.70596459782769D 01	1.70113594069442D 01	1.67935686315916D 01
6	2	0	4	0	3.59696303985931D 01	2.47421219615066D 01	1.69654778513327D 01	1.14327713395721D 01
6	2	2	0	2	4.39922208908142D 02	3.76936561456635D 02	3.33956363971294D 02	3.05654638667195D 02
6	2	2	2	0	-4.39866135911761D 01	-6.94909462711618D 01	-8.92255433519478D 01	-1.06414220782809D 02
6	3	1	1	1	7.23258209452426D 02	6.26697750062068D 02	5.57479020228378D 02	5.09067956592214D 02
6	4	0	0	2	-4.75479481557877D 02	-3.71083281827101D 02	-2.97587668204668D 02	-2.44882021754070D 02
6	4	0	2	0	1.80912439392989D 02	1.44547759151407D 02	1.19138494003633D 02	1.01233479877140D 02
20	TERMS	OF	DEGREE	6				
7	0	1	1	5	-1.73324963649563D 00	-2.16490679541573D 00	-2.30061434489784D 00	-2.25932093139190D 00
7	0	1	3	3	-2.27868833572232D 00	-2.75939668138504D 00	-2.67216375082670D 00	-2.23981468566038D 00
7	0	1	5	1	1.49712947599234D 00	1.37060794110810D 00	1.54829408277669D 00	1.92167267783154D 00
7	0	3	1	3	2.05505510887866D 02	1.74809028573919D 02	1.55993596483895D 02	1.46071762241951D 02
7	0	3	3	1	2.38282485677371D 02	2.09321454096905D 02	1.93145475935231D 02	1.86978557642128D 02
7	0	5	1	1	9.60211522797400D 01	1.54705821424874D 02	2.28355189546784D 02	3.35874628973781D 02
7	1	0	0	6	6.66634475575243D 00	7.73180998362761D 00	7.66871448299282D 00	7.06037791059967D 00
7	1	0	2	4	1.72565235058234D 01	2.10897814438403D 01	2.13877561488713D 01	1.99461007232606D 01
7	1	0	4	2	1.03745503538819D 01	1.65407752140115D 01	1.86298076200011D 01	1.86097104965541D 01
7	1	0	6	0	5.43238169815279D 00	8.07824120382399D 00	9.25164038933131D 00	9.65522325819363D 00
7	1	2	0	4	-7.90405811107176D 02	-6.24317959192567D 02	-5.19978654946317D 02	-4.56474257006098D 02
7	1	2	2	2	-1.47420755379812D 03	-1.10221200375108D 03	-8.61014481232553D 02	-7.03354386531304D 02
7	1	2	4	0	-4.88878908745762D 02	-2.92182375752016D 02	-1.58315846757851D 02	-6.12771933237296D 01
7	1	4	0	2	-3.69312124152844D 02	-5.52520790803120D 02	-7.61183965155945D 02	-1.04960821554307D 03
7	1	4	2	0	3.69312124152844D 02	5.52520790803121D 02	7.61183965155945D 02	1.04960821554307D 03
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7	2	1	3	1	-4.07914499462840D 02	-4.60211156864338D 02	-5.06107223903478D 02	-5.53491183513537D 02
7	2	3	1	1	-4.70852440286541D 03	-4.86773398075439D 03	-5.31949793837133D 03	-6.22013536792010D 03
7	3	0	0	4	-6.36081487283809D 02	-3.62485829955445D 02	-1.88406776885725D 02	-7.32607468309883D 01
7	3	0	2	2	-7.13490152271456D 02	-4.10382640221947D 02	-2.18002571353843D 02	-9.13509491433637D 01
7	3	0	4	0	-6.28427919517851D 02	-4.55007845672268D 02	-3.43033613883257D 02	-2.69701660374542D 02
7	3	2	0	2	5.54415358172622D 03	5.05822701792250D 03	4.89564131131577D 03	5.07983005419268D 03
7	3	2	2	0	-4.01881671455369D 03	-3.75158168832267D 03	-3.73772126258948D 03	-4.01950451284913D 03
7	4	1	1	1	8.35120920684866D 03	7.27313647129249D 03	6.68868790304921D 03	6.56770015432844D 03
7	5	0	0	2	-4.20634564950079D 03	-3.17180667232563D 03	-2.50086874417316D 03	-2.07288057477820D 03
7	5	0	2	0	5.36846020911663D 02	4.97027303848890D 02	4.86352229315335D 02	5.08464085877285D 02
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8	0	0	2	6	-1.23250634049106D-01	-2.16004140267156D-01	-1.98363248413358D-01	-1.12427870482575D-01

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8	0	0	6	2	5.45405694653886D-01	6.04713105866306D-01	6.30433100874066D-01	6.37428065692805D-01
8	0	0	8	0	-5.07897608355705D-02	-2.01477161719355D-02	-3.59284851285692D-02	-8.08520683057414D-02
8	0	2	0	6	-5.41486869056516D 02	-3.29434460400009D 02	-1.94781012034979D 02	-1.04061259480068D 02
8	0	2	2	4	-1.54375387270358D 03	-9.28487356610470D 02	-5.41251391121175D 02	-2.83434215292984D 02
8	0	2	4	2	-1.62952116114638D 03	-1.01450645458469D 03	-6.32300536901553D 02	-3.84123986614789D 02
8	0	2	6	0	-6.46873985200935D 02	-4.35963461025163D 02	-3.07786161864389D 02	-2.28829796012126D 02
8	0	4	0	4	6.24515283110041D 02	5.44180300144018D 02	6.26765591174115D 02	8.78082887192164D 02
8	0	4	2	2	2.60025819841900D 02	3.40813595395907D 01	2.67522096252713D 01	1.89350619098781D 02
8	0	4	4	0	-5.28555563371272D 02	-7.93920733820486D 02	-1.03344577462603D 03	-1.34078233806545D 03
8	0	6	0	2	5.12910285926065D 03	4.83213522410194D 03	6.36282533816212D 03	1.62939088718105D 04
8	0	6	2	0	2.26062257770273D 03	1.09539539162968D 02	-2.96528949400116D 03	-1.39231853572692D 04
8	1	1	1	5	-6.20821034353598D 02	-4.27257318496838D 02	-2.87277633225091D 02	-1.79684769670128D 02
8	1	1	3	3	-1.05172068804776D 03	-6.44109620803155D 02	-3.45947354433912D 02	-1.10800629495731D 02
8	1	1	5	1	-3.56330261997129D 02	-1.47130376103964D 02	8.93156525845016D 00	1.36859780989977D 02
8	1	3	1	3	7.60772881829371D 03	7.53056600534604D 03	8.17852648481973D 03	9.79259472053467D 03
8	1	3	3	1	8.28526204526996D 03	8.82255909727414D 03	1.01517052334025D 04	1.26951795174702D 04
8	1	5	1	1	2.20652329350609D 04	3.37328263209926D 04	6.21874322144219D 04	1.88856838931748D 05
8	2	0	0	6	6.52399735469632D 02	4.33525036915774D 02	2.84015043340172D 02	1.76696193129507D 02
8	2	0	2	4	1.72265374681018D 03	1.07507744365146D 03	6.55579195376895D 02	3.68956930417556D 02
8	2	0	4	2	1.50026627900433D 03	8.90630964164123D 02	5.22653376244536D 02	2.90883052419057D 02
8	2	0	6	0	5.26032120394908D 02	3.27329965185314D 02	2.17616001839456D 02	1.57738506176920D 02
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8	2	2	2	2	-9.66799845831704D 03	-9.59577275900522D 03	-9.93761610542007D 03	-1.09465598097256D 04
8	2	2	4	0	8.51033377929660D 03	7.55023476541680D 03	7.63199656165431D 03	8.76863949579819D 03
8	2	4	0	2	-2.70458316819505D 04	-4.57407841866096D 04	-8.45572443428834D 04	-2.46207084215425D 05
8	2	4	2	0	4.77945767460989D 04	5.85925199378217D 04	9.22125719915132D 04	2.50039229085477D 05
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8	3	1	3	1	-1.29604336123524D 04	-1.38481514617043D 04	-1.53644409435339D 04	-1.80499680525740D 04
8	3	3	1	1	-1.47838832119940D 05	-1.82794639577551D 05	-2.77899294235275D 05	-7.05418314184081D 05
8	4	0	0	4	-1.84018396664177D 03	2.84574003342070D 02	1.59593949918755D 03	2.56452168746403D 03
8	4	0	2	2	5.44972369404024D 03	4.73394403263774D 03	4.30273908068604D 03	4.13260488873419D 03
8	4	0	4	0	2.53882425385681D 03	1.04496958268340D 03	5.35397316618267D 01	-7.34148322347922D 02
8	4	2	0	2	1.15106891510299D 05	1.17468715436204D 05	1.47025500853179D 05	3.04900973740889D 05
8	4	2	2	0	-5.95317825196315D 04	-7.35727578689559D 04	-1.09817406880264D 05	-2.70697074144665D 05
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8	6	0	0	2	-3.49389200479539D 04	-2.72872408558127D 04	-2.44364008900253D 04	-3.19915499239291D 04
8	6	0	2	0	1.22844238000273D 04	1.09960274288559D 04	1.20661807215554D 04	2.20136175161326D 04

40 TERMS OF DEGREE 8

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TABLE 1--Continued

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2	2	0	0	0	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01
2 TERMS OF DEGREE 2								
3	0	1	1	1	5.14880032952322D-01	5.16742455560149D-01	5.18726008922087D-01	5.23067266450465D-01
3	1	0	0	2	-1.51435303809506D 00	-1.43539570988930D 00	-1.36506844453181D 00	-1.24539825345349D 00
3	1	0	2	0	-1.42682343249317D 00	-1.34238206788848D 00	-1.26651050283661D 00	-1.13555412749889D 00
3 TERMS OF DEGREE 3								
4	0	0	0	4	4.82700030892802D-02	4.84446052087640D-02	4.86305633364457D-02	4.90375562297311D-02
4	0	0	2	2	9.65400061785603D-02	9.68892104175279D-02	9.72611266728913D-02	9.80751124594623D-02
4	0	0	4	0	-8.04500051488003D-02	-8.07410086812732D-02	-8.10509388940761D-02	-8.17292603828852D-02
4	0	2	0	2	1.55012991568116D 00	1.44206549183374D 00	1.35277506959766D 00	1.21763248837268D 00
4	0	2	2	0	6.76859846223351D-01	5.51539660790289D-01	4.43367620575770D-01	2.64984480024332D-01
4	1	1	1	1	5.13688276151650D 00	4.94736572801919D 00	4.78635499485206D 00	4.53641908737308D 00
4	2	0	0	2	-6.00410943949017D 00	-5.42927579708180D 00	-4.94506044994453D 00	-4.18286642516670D 00
4	2	0	2	0	3.77711967758566D 00	3.43567064445777D 00	3.14891775977109D 00	2.70024945676969D 00
8 TERMS OF DEGREE 4								
5	0	1	1	3	6.47658461505733D-01	5.20350001333148D-01	4.09980231493630D-01	2.26481420488798D-01
5	0	1	3	1	9.78926098161477D-02	-4.07737454176932D-02	-1.63575767031744D-01	-3.75561103556518D-01
5	0	3	1	1	-4.63470844541594D 00	-4.73832373886196D 00	-4.89724234010896D 00	-5.40495471345606D 00
5	1	0	0	4	-1.90487782795804D 00	-1.44541667036985D 00	-1.07889534603587D 00	-5.39241477354281D-01
5	1	0	2	2	-4.26753610674575D 00	-3.33544373170823D 00	-2.59179511478737D 00	-1.49794620145097D 00
5	1	0	4	0	-3.69360906656045D 00	-3.17736963055075D 00	-2.76397633732443D 00	-2.15602396096472D 00
5	1	2	0	2	1.36314954276940D 01	1.31620103857277D 01	1.28874798423920D 01	1.28689397939430D 01
5	1	2	2	0	-1.36314954276940D 01	-1.31620103857277D 01	-1.28874798423920D 01	-1.28689397939430D 01
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5	3	0	0	2	-3.64165990098912D 01	-3.17444904986044D 01	-2.80280669092405D 01	-2.26650533153322D 01
5	3	0	2	0	6.79213095039578D 00	6.29507831743571D 00	5.93039841961882D 00	5.52061231996909D 00
11 TERMS OF DEGREE 5								
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6	0	0	2	4	9.62530279719897D-02	5.86728524451289D-02	2.56888153379936D-02	-3.03712448696062D-02
6	0	0	4	2	-6.56615874044435D-02	-7.14146478881580D-02	-7.68062425354137D-02	-8.69915999918056D-02
6	0	0	6	0	-3.82026307708391D-02	-1.70092583931038D-02	1.66054699348613D-03	3.35963172621511D-02
6	0	2	0	4	-5.90036063228506D 00	-6.27071551663113D 00	-6.63167931772232D 00	-7.44774896197407D 00
6	0	2	2	2	-1.14379122800502D 01	-1.16578034059030D 01	-1.18636820102963D 01	-1.24040674488821D 01
6	0	2	4	0	-4.26511279073996D-01	-1.80179631475239D-01	1.34634162760755D-01	9.46432370751768D-02
6	0	4	0	2	1.65861412702478D 01	8.73982781849447D 00	1.20448021411407D 00	-1.72884022971501D 01
6	0	4	2	0	4.61676981629718D 01	4.31460098330971D 01	4.24040859085104D 01	4.95584052185686D 01
6	1	1	1	3	-2.13417049717619D 00	-4.90904237421810D 00	-7.36671907972804D 00	-1.18639546431717D 01
6	1	1	3	1	-2.13695709045781D 01	-2.32775474147755D 01	-2.51951938192336D 01	-2.94738100961978D 01

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TABLE 1--Continued

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6	2	0	0	4	-2.76187460702597D 00	5.47398892005116D-01	3.06137210297246D 00	6.67600656561126D 00
6	2	0	2	2	1.65237691891697D 01	1.62713553829827D 01	1.60798606969636D 01	1.59962157738163D 01
6	2	0	4	0	7.39346088201184D 00	4.36564559707469D 00	2.03028015643334D 00	-1.37207274936702D 00
6	2	2	0	2	2.89068103411811D 02	2.82959455132380D 02	2.87724789336790D 02	3.44373351390500D 02
6	2	2	2	0	-1.23467790934507D 02	-1.42626639868842D 02	-1.66593236453668D 02	-2.49193012704941D 02
6	3	1	1	1	4.77658738130228D 02	4.61565313030935D 02	4.61211170932494D 02	5.26579802956892D 02
6	4	0	0	2	-2.06685608683968D 02	-1.79051739816404D 02	-1.59566007260877D 02	-1.41253683207662D 02
6	4	0	2	0	8.87316650916477D 01	8.03882970769665D 01	7.55802568438784D 01	7.72569007243908D 01
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7	0	1	3	3	-1.58465217710449D 00	-7.70873747118233D-01	1.73025462053484D-01	2.45223611472212D 00
7	0	1	5	1	2.43345050274862D 00	3.05659537403415D 00	3.78351430334302D 00	5.58746692113378D 00
7	0	3	1	3	1.43626148504362D 02	1.48484428982125D 02	1.61824493512653D 02	2.31130885623432D 02
7	0	3	3	1	1.89764950380553D 02	2.01940128831683D 02	2.25735173339594D 02	3.35150970325480D 02
7	0	5	1	1	5.19393706757390D 02	9.05631803468698D 02	2.13619953494847D 03	-3.26723275187707D 03
7	1	0	0	6	6.20186133484557D 00	5.24085298539952D 00	4.24743171596029D 00	2.25042013497698D 00
7	1	0	2	4	1.76809221371945D 01	1.50569913913828D 01	1.23004262867359D 01	6.69739832459552D 00
7	1	0	4	2	1.75135750442464D 01	1.58889130563349D 01	1.40233391843104D 01	1.00654967530038D 01
7	1	0	6	0	9.66609723793121D 00	9.49154065829064D 00	9.24801573110924D 00	8.79667185626250D 00
7	1	2	0	4	-4.22429848542242D 02	-4.12456747172569D 02	-4.25853930296455D 02	-5.50311632436743D 02
7	1	2	2	2	-6.02238149145772D 02	-5.42573363396260D 02	-5.17236737729685D 02	-5.78349154565580D 02
7	1	2	4	0	1.49828168490168D 01	8.15446930535969D 01	1.47681130804086D 02	3.25993689169537D 02
7	1	4	0	2	-1.52762854928644D 03	-2.51564389852416D 03	-5.62157772354861D 03	7.77912559970732D 03
7	1	4	2	0	1.52762854928644D 03	2.51564389852416D 03	5.62157772354861D 03	-7.77912559970732D 03
7	2	1	1	3	-2.93988837537764D 02	-3.68010895686315D 02	-4.53747396968808D 02	-7.27930261595601D 02
7	2	1	3	1	-6.09200246822090D 02	-6.80920338894676D 02	-7.79551247224706D 02	-1.14916008858793D 03
7	2	3	1	1	-7.97452348449740D 03	-1.18465938136615D 04	-2.42634348906425D 04	2.90713869884958D 04
7	3	0	0	4	6.60445149905831D 00	6.57796645574683D 01	1.14121412231142D 02	2.10848008213283D 02
7	3	0	2	2	-4.27655694770381D 00	5.92351579802317D 01	1.09805849533238D 02	2.05249646580907D 02
7	3	0	4	0	-2.21934305130903D 02	-1.92254789165313D 02	-1.76772659339598D 02	-1.87768164783398D 02
7	3	2	0	2	5.78132221315704D 03	7.61487648128397D 03	1.37882778516216D 04	-1.27003618896726D 04
7	3	2	2	0	-4.77780919013228D 03	-6.63161796463438D 03	-1.27871696800126D 04	1.39033782578783D 04
7	4	1	1	1	7.04665267340468D 03	8.71852335219928D 03	1.47775640098138D 04	-1.18198088650692D 04
7	5	0	0	2	-1.83256092262229D 03	-1.79767349204157D 03	-2.26235412767445D 03	5.48335656068666D 02
7	5	0	2	0	5.81167729997496D 02	7.66392599223212D 02	1.38520412503690D 03	-1.26118761889271D 03
26	TERMS	OF	DEGREE	7				
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8	0	0	2	6	1.87841597877488D-02	1.83352658497114D-01	3.76252143832319D-01	8.49686369388502D-01

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1966ApJS...13..503C

TABLE 1--Continued

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8	0	0	6	2	6.34331664946412D-01	6.26282795474124D-01	6.16418575500889D-01	5.98509759716536D-01
8	0	0	8	0	-1.45598396606974D-01	-2.25503722885738D-01	-3.18834644042655D-01	-5.48805925212588D-01
8	0	2	0	6	-3.82606294043539D 01	1.44006089906693D 01	6.24012187381461D 01	1.79124707793959D 02
8	0	2	2	4	-9.93731899042967D 01	4.49731830296972D 01	1.73490862442309D 02	4.75722749742413D 02
8	0	2	4	2	-2.14945137028494D 02	-9.23112210123875D 01	4.56901673764991D 00	1.83543217001049D 02
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8	0	4	2	2	5.72469753397501D 02	1.44635208265615D 03	4.29760760382074D 03	-8.50126976964280D 03
8	0	4	4	0	-1.85895262093416D 03	-2.97393556614611D 03	-6.60704158505655D 03	9.75379173143537D 03
8	0	6	0	2	-4.14248371752706D 04	-1.63557172890180D 04	-2.08370044475127D 04	1.53965695217565D 04
8	0	6	2	0	4.30555501588987D 04	1.73472603935232D 04	2.08849435303458D 04	-1.28872460903991D 04
8	1	1	1	5	-9.06394018162641D 01	-9.84086698716194D 00	7.21725988006829D 01	2.93577969711739D 02
8	1	1	3	3	9.23804205402977D 01	2.88012025616568D 02	5.00562900738621D 02	1.13172731927419D 03
8	1	1	5	1	2.53971808836316D 02	3.74885428237130D 02	5.15708436541875D 02	9.69937609359785D 02
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8	1	3	3	1	1.75993572257197D 04	2.85007983682035D 04	6.40589049292773D 04	-9.44798635848612D 04
8	1	5	1	1	-4.96943454906878D 05	-1.87238764903006D 05	-2.19589199883466D 05	1.34684836248360D 05
8	2	0	0	6	9.50326085607408D 01	2.80684798061721D 01	-3.25627270522259D 01	-1.70372875196205D 02
8	2	0	2	4	1.60244515582065D 02	-4.91346639583134D 00	-1.51040098689184D 02	-4.81616111020251D 02
8	2	0	4	2	1.37588636375994D 02	2.93603876568896D 01	-5.47888595964759D 01	-2.12694550071825D 02
8	2	0	6	0	1.27447645872391D 02	1.16342731661683D 02	1.19721439540119D 02	1.72547151756211D 02
8	2	2	0	4	-1.65373699513627D 04	-2.37488020075444D 04	-4.76709908419288D 04	5.74415509138809D 04
8	2	2	2	2	-1.32017504822929D 04	-1.84820471998843D 04	-3.58255496167617D 04	3.92516052785733D 04
8	2	2	4	0	1.15358868383827D 04	1.81025916031056D 04	3.99234354817301D 04	-5.78249381890124D 04
8	2	4	0	2	6.06524686866656D 05	2.10986688276011D 05	2.26422144398864D 05	-1.14149382206587D 05
8	2	4	2	0	-6.06125573060732D 05	-2.14999958680618D 05	-2.41071952738651D 05	1.40199080119010D 05
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8	3	1	3	1	-2.31244890183340D 04	-3.42826150064090D 04	-7.02480593244564D 04	8.65494138231133D 04
8	3	3	1	1	1.56712622264012D 06	5.02680662926237D 05	5.06090541096130D 05	-2.38052126192891D 05
8	4	0	0	4	3.54495493497211D 03	5.07293830555545D 03	9.31485930770783D 03	-7.65614722190005D 03
8	4	0	2	2	4.28089689320046D 03	5.02224110038354D 03	7.85461814628941D 03	-4.48659239140311D 03
8	4	0	4	0	-1.57421817963961D 03	-2.91848774393550D 03	-6.72961032706169D 03	9.31065483727618D 03
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8	5	1	1	1	-4.24955781258042D 05	-9.86030036031298D 04	-7.00288929699731D 04	2.09084674429121D 04
8	6	0	0	2	2.63869887290726D 04	-3.82829769102307D 02	-4.79629291006809D 03	8.85759761904799D 02
8	6	0	2	0	-3.50757239517224D 04	-8.14429546187917D 03	-6.19465558660272D 03	2.66541575316078D 03

40 TERMS OF DEGREE 8

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TABLE 1--Continued

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2	2	0	0	0	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01
2 TERMS OF DEGREE 2								
3	0	1	1	1	5.25430853299706D-01	5.27927357195650D-01	5.30560271646859D-01	5.36250536250536D-01
3	1	0	0	2	-1.19416103022660D 00	-1.14766816781663D 00	-1.10533389926429D 00	-1.03125103125103D 00
3	1	0	2	0	-1.07856624250067D 00	-1.02624487566163D 00	-9.77959434069043D-01	-8.91825891825892D-01
3 TERMS OF DEGREE 3								
4	0	0	0	4	4.92591424968474D-02	4.94931897370922D-02	4.97400254668930D-02	5.02734877734878D-02
4	0	0	2	2	9.85182849936948D-02	9.89863794741843D-02	9.94800509337860D-02	1.00546975546976D-01
4	0	0	4	0	-8.20985708280790D-02	-8.24886495618203D-02	-8.29000424448217D-02	-8.37891462891463D-02
4	0	2	0	2	1.16718255457078D 00	1.12594670027672D 00	1.09274282097658D 00	1.04703814850576D 00
4	0	2	2	0	1.89818616141269D-01	1.21518699523964D-01	5.86466574237162D-02	-5.54506184566915D-02
4	1	1	1	1	4.44256335649778D 00	4.36707826414243D 00	4.30873401480362D 00	4.24034141139404D 00
4	2	0	0	2	-3.88118489599488D 00	-3.62087749987809D 00	-3.39552177777719D 00	-3.03021320860390D 00
4	2	0	2	0	2.52418372528283D 00	2.37341210007741D 00	2.24413229937689D 00	2.03862567855483D 00
8 TERMS OF DEGREE 4								
5	0	1	1	3	1.48342591040467D-01	7.67488434442159D-02	1.02221488838335D-02	-1.12462332522502D-01
5	0	1	3	1	-4.69991715588184D-01	-5.59432150673464D-01	-6.45530795739282D-01	-8.13363033724344D-01
5	0	3	1	1	-5.77595539020097D 00	-6.24958264749003D 00	-6.85565251039725D 00	-8.67159857314901D 00
5	1	0	0	4	-3.37142252364698D-01	-1.66845311835252D-01	-2.12961435079870D-02	2.16273716389426D-01
5	1	0	2	2	-1.08945952103547D 00	-7.46413952609572D-01	-4.54639183507963D-01	1.65880896038649D-02
5	1	0	4	0	-1.93097488152437D 00	-1.74449902113346D 00	-1.58921689705565D 00	-1.35088807079031D 00
5	1	2	0	2	1.31271713413659D 01	1.35860492336740D 01	1.42826093966609D 01	1.66761511022096D 01
5	1	2	2	0	-1.31271713413659D 01	-1.35860492336740D 01	-1.42826093966609D 01	-1.66761511022096D 01
5	2	1	1	1	3.89473565389774D 01	3.90531869665089D 01	3.97417789550696D 01	4.33872798373420D 01
5	3	0	0	2	-2.07541255746784D 01	-1.92420446895137D 01	-1.80767180099133D 01	-1.66949248019512D 01
5	3	0	2	0	5.45604239114609D 00	5.48313396442725D 00	5.60931634670837D 00	6.24043414269572D 00
11 TERMS OF DEGREE 5								
6	0	0	0	6	-1.82977938935318D-02	-2.59392227040672D-02	-3.31954727412612D-02	-4.70485885282472D-02
6	0	0	2	4	-5.48933816805954D-02	-7.78176681122017D-02	-9.95864182237836D-02	-1.41145765584742D-01
6	0	0	4	2	-9.19790294407122D-02	-9.70048789732557D-02	-1.02141955444742D-01	-1.13030182454116D-01
6	0	0	6	0	4.76722761177933D-02	6.09037321211587D-02	7.35411474749663D-02	9.78837781360187D-02
6	0	2	0	4	-7.95907029961293D 00	-8.58188806104573D 00	-9.35935822361637D 00	-1.16536225171272D 01
6	0	2	2	2	-1.28091838888012D 01	-1.33538242466479D 01	-1.40863607741708D 01	-1.64207609114775D 01
6	0	2	4	0	1.45326610513868D 00	2.04764357814844D 00	2.75762506633703D 00	4.72541384841939D 00
6	0	4	0	2	-3.28180326726365D 01	-6.25218762386584D 01	-1.50853193527864D 02	2.08005466914959D 02
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6	1	1	1	3	-1.41316214110213D 01	-1.65650081541022D 01	-1.93014819710915D 01	-2.64864773952958D 01
6	1	1	3	1	-3.20535591535322D 01	-3.51075540509121D 01	-3.88255505885374D 01	-4.94776567253568D 01

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TABLE 1--Continued

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6	2	0	2	2	1.61551536459860D 01	1.64879880925589D 01	1.70378165153791D 01	1.90781603232342D 01
6	2	0	4	0	-2.70910945265017D 00	-3.93403238379054D 00	-5.12843758606073D 00	-7.77173534432987D 00
6	2	2	0	2	4.20071492371106D 02	5.85822775369747D 02	1.10779776111608D 03	-1.04829074848241D 03
6	2	2	2	0	-3.33443176392584D 02	-5.05536676101082D 02	-1.03195558750692D 03	1.12048778769814D 03
6	3	1	1	1	6.23858725150675D 02	8.42074783067637D 02	1.53610167905634D 03	-1.33984109511487D 03
6	4	0	0	2	-1.44429438559148D 02	-1.64737950938842D 02	-2.46154077283801D 02	1.20008998410175D 02
6	4	0	2	0	8.71564154043563D 01	1.12600313034165D 02	1.97829984064358D 02	-1.64138437081417D 02
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7	0	1	3	3	3.83389975309391D 00	5.44007643414675D 00	7.35090470254581D 00	1.26439421893258D 01
7	0	1	5	1	6.71568538571397D 00	8.05432931193572D 00	9.67603516971129D 00	1.42681419228651D 01
7	0	3	1	3	3.12869916742151D 02	4.88318724783429D 02	1.04109850025712D 03	-1.27749962405055D 03
7	0	3	3	1	4.59839115174163D 02	7.24866822934789D 02	1.55580877091451D 03	-1.91805992137484D 03
7	0	5	1	1	-2.20753439672742D 03	-2.24743287700325D 03	-3.45123854854410D 03	2.45811967186166D 03
7	1	0	0	6	1.23846686284236D 00	1.89437783002715D-01	-9.33539451659170D-01	-3.64498316375900D 00
7	1	0	2	4	3.84503236747937D 00	8.86608519010807D-01	-2.27813120088062D 00	-9.89927943836470D 00
7	1	0	4	2	8.04918206435046D 00	5.99180703490758D 00	3.84429126546354D 00	-1.09107927575631D 00
7	1	0	6	0	8.65716630781047D 00	8.60661338182360D 00	8.66830216049423D 00	9.26406581928145D 00
7	1	2	0	4	-7.11067992595798D 02	-1.06156244518137D 03	-2.16895520886901D 03	2.45673004625105D 03
7	1	2	2	2	-7.03716965012480D 02	-9.99036498911845D 02	-1.95982924554311D 03	2.09549812367895D 03
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7	2	1	3	1	-1.54100978614633D 03	-2.35383807641149D 03	-4.86568394969441D 03	5.50769266355750D 03
7	2	3	1	1	1.76253006755374D 04	1.62146385375666D 04	2.26400611119033D 04	-1.35745613142557D 04
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7	3	0	2	2	2.72161591387388D 02	3.91252869194660D 02	7.29646718648522D 02	-5.86966704245843D 02
7	3	0	4	0	-2.26111220356403D 02	-3.21427092332028D 02	-6.38579585476857D 02	7.20788198065896D 02
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7	3	2	2	0	8.13484342385851D 03	7.29592256589992D 03	1.00507802155654D 04	-6.15339061285795D 03
7	4	1	1	1	-5.76654908214481D 03	-4.22860586581840D 03	-4.68880326534736D 03	1.91912615050270D 03
7	5	0	0	2	-4.40422622456043D 01	-2.55651661108993D 02	-5.00528338807189D 02	2.21382923347452D 02
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26	TERMS	OF	DEGREE	7				
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8	0	0	2	6	1.14092694828859D 00	1.48248367301835D 00	1.89192014823677D 00	3.03637406667975D 00

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TABLE 1--Continued

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8	0	0	6	2	5.92764559381376D-01	5.90327830690764D-01	5.92086208346405D-01	6.13151827599671D-01
8	0	0	8	0	-6.91269533368903D-01	-8.59209206319274D-01	-1.06148284412731D 00	-1.63022978345822D 00
8	0	2	0	6	2.80114219376903D 02	4.77901126743077D 02	1.07588960365264D 03	-1.38515913040428D 03
8	0	2	2	4	7.31817776824554D 02	1.22956958904905D 03	2.72789730685217D 03	-3.41606604967147D 03
8	0	2	4	2	3.06324953806976D 02	5.24004180631572D 02	1.14639897570824D 03	-1.32231366387146D 03
8	0	2	6	0	-2.32191792575686D 02	-3.67999080926519D 02	-8.12567672284309D 02	1.09557275563629D 03
8	0	4	0	4	-8.17539926735720D 03	-9.10175892790630D 03	-1.67272811098326D 04	5.94441726648198D 03
8	0	4	2	2	-6.17891379537261D 03	-6.62493295828221D 03	-1.05632831061253D 04	7.93621298466050D 03
8	0	4	4	0	6.79134725878260D 03	7.48052921122067D 03	1.40680146622266D 04	-4.05794441092092D 03
8	0	6	0	2	7.66386255389802D 03	5.39903312391434D 03	3.29396278229344D 03	-8.20106687100765D 03
8	0	6	2	0	-5.79299705292695D 03	-3.52897925122425D 03	-6.57912788904076D 02	6.84017420319827D 03
8	1	1	1	5	4.93294915027969D 02	8.87538222522535D 02	2.08238126710733D 03	-2.84388977515909D 03
8	1	1	3	3	1.73491259509968D 03	2.95066404199918D 03	6.67228713292569D 03	-8.73559744432383D 03
8	1	1	5	1	1.42337117623995D 03	2.35087473482150D 03	5.20995348412252D 03	-6.66131557199259D 03
8	1	3	1	3	-4.62358397242809D 04	-5.03416734675235D 04	-9.53803296397495D 04	1.52023905703979D 04
8	1	3	3	1	-6.47398741869057D 04	-6.94235182096323D 04	-1.25296733580076D 05	3.81030870263393D 04
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8	2	0	0	6	-2.80448184063971D 02	-4.86814332520547D 02	-1.09325754958416D 03	1.34935026878716D 03
8	2	0	2	4	-7.49707855379066D 02	-1.25878013398584D 03	-2.76833190150097D 03	3.35069696286348D 03
8	2	0	4	2	-3.26589383754734D 02	-5.36067633490758D 02	-1.15061544047002D 03	1.33431868130880D 03
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8	2	2	0	4	3.61899284246957D 04	3.65156924349738D 04	6.58999478217405D 04	-2.72884870780327D 03
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8	2	2	4	0	-3.95554389681713D 04	-4.26826573485592D 04	-7.91753757668860D 04	1.74337532066335D 04
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8	2	4	2	0	6.35321348926260D 04	4.22270757252584D 04	3.01578333335550D 04	-4.41960481968681D 04
8	3	1	1	3	3.82691625682306D 04	3.87225756068949D 04	7.27126763245976D 04	6.83938211318729D 03
8	3	1	3	1	5.48698988658873D 04	5.54968073488369D 04	9.88757291218770D 04	-1.36888961295095D 04
8	3	3	1	1	-9.93483771974523D 04	-6.49638642273659D 04	-6.61492677902926D 04	2.33255029219512D 04
8	4	0	0	4	-3.64887815596501D 03	-2.78703182973859D 03	-4.92121167485765D 03	-4.65258883139552D 03
8	4	0	2	2	-1.44935453161544D 03	-2.74212616364851D 02	9.65087912301373D 02	-2.00277749574262D 03
8	4	0	4	0	6.13409980864112D 03	6.45162828774785D 03	1.19997349365950D 04	-2.13194465878353D 03
8	4	2	0	2	9.93095690185310D 03	9.31067220259597D 03	2.71823942654463D 04	1.98085068365047D 04
8	4	2	2	0	-3.84356948051448D 04	-3.13937354984201D 04	-5.34269873729847D 04	-7.88097409560506D 03
8	5	1	1	1	1.18937245716485D 04	1.62105421354968D 04	4.87887119241285D 04	2.81979471014764D 04
8	6	0	0	2	-1.19487973409765D 03	-2.76982743083639D 03	-7.87972688517364D 03	-2.43496794599726D 03
8	6	0	2	0	1.62193177278141D 03	2.07012622167131D 03	5.91509872164717D 03	4.04502551828100D 03

40 TERMS OF DEGREE 8

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1966ApJS...13..503C

TABLE 1--Continued

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2	2	0	0	0	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01
2 TERMS OF DEGREE 2								
3	0	1	1	1	5.39316147125445D-01	5.42534722222222D-01	5.45911125668741D-01	5.49450549450549D-01
3	1	0	0	2	-9.98733605787861D-01	-9.68812003968254D-01	-9.41226078739209D-01	-9.15750915750916D-01
3	1	0	2	0	-8.53118246063991D-01	-8.16902281746032D-01	-7.82911852295274D-01	-7.50915750915751D-01
3 TERMS OF DEGREE 3								
4	0	0	0	4	5.05608887930105D-02	5.08626302083333D-02	5.11791680314445D-02	5.15109890109890D-02
4	0	0	2	2	1.01121777586021D-01	1.01725260416667D-01	1.02358336062889D-01	1.03021978021978D-01
4	0	0	4	0	-8.42681479883507D-02	-8.47710503472222D-02	-8.52986133857408D-02	-8.58516483516483D-02
4	0	2	0	2	1.03336355577210D 00	1.02530990679707D 00	1.02268905793046D 00	1.02545024420024D 00
4	0	2	2	0	-1.08610217079635D-01	-1.60299188968274D-01	-2.11287265913896D-01	-2.62324481074481D-01
4	1	1	1	1	4.22953249204345D 00	4.23431819916195D 00	4.25509077187707D 00	4.29258241758242D 00
4	2	0	0	2	-2.88287023315702D 00	-2.75533134245467D 00	-2.64549264196357D 00	-2.55170177045177D 00
4	2	0	2	0	1.95811689446456D 00	1.89032062462587D 00	1.83409084994701D 00	1.78857600732601D 00
8 TERMS OF DEGREE 4								
5	0	1	1	3	-1.70674714803563D-01	-2.28021898446379D-01	-2.85366614557900D-01	-3.43571203457800D-01
5	0	1	3	1	-8.97657585657203D-01	-9.83841650438769D-01	-1.07316528398533D 00	-1.16695657767438D 00
5	0	3	1	1	-1.00690376701096D 01	-1.20370246628265D 01	-1.49718271665307D 01	-1.97470928836602D 01
5	1	0	0	4	3.16064286673265D-01	4.07181961511390D-01	4.92011404410172D-01	5.72618672429667D-01
5	1	0	2	2	2.11521298179120D-01	3.87213289969699D-01	5.48306711071350D-01	6.98759390415400D-01
5	1	0	4	0	-1.26006879907025D 00	-1.18436298661111D 00	-1.12170819337507D 00	-1.07051269254236D 00
5	1	2	0	2	1.86463660557585D 01	2.14946868979045D 01	2.58134951147081D 01	3.29118214727671D 01
5	1	2	2	0	-1.86463660557585D 01	-2.14946868979045D 01	-2.58134951147081D 01	-3.29118214727671D 01
5	2	1	1	1	4.68695169813752D 01	5.21722356845195D 01	6.04741148304670D 01	7.43884864492874D 01
5	3	0	0	2	-1.65008899019482D 01	-1.67251109278967D 01	-1.75462416651756D 01	-1.93857226010927D 01
5	3	0	2	0	6.83117684286394D 00	7.72358414396399D 00	9.11364005622383D 00	1.14364959018660D 01
11 TERMS OF DEGREE 5								
6	0	0	0	6	-5.38644457031278D-02	-6.07426650622850D-02	-6.77843008141485D-02	-7.50944552312821D-02
6	0	0	2	4	-1.61593337109383D-01	-1.82227995186855D-01	-2.03352902442445D-01	-2.25283365693846D-01
6	0	0	4	2	-1.18924658408493D-01	-1.25222520575260D-01	-1.32011248802970D-01	-1.39390564829396D-01
6	0	0	6	0	1.09968044806703D-01	1.22232768214708D-01	1.34857131063232D-01	1.48029241335930D-01
6	0	2	0	4	-1.34123360611503D 01	-1.58898072130360D 01	-1.95884441420767D 01	-2.56145214383348D 01
6	0	2	2	2	-1.82909128064936D 01	-2.09749870242406D 01	-2.50311376888364D 01	-3.16886843107100D 01
6	0	2	4	0	6.16735898475893D 00	8.15483266440459D 00	1.10775936705934D 01	1.57951156943507D 01
6	0	4	0	2	1.22258189810368D 02	9.73461484278865D 01	8.98102885213839D 01	9.29608982121761D 01
6	0	4	2	0	-1.02911618609756D 02	-7.81474112349205D 01	-7.00118326915036D 01	-7.13584685369051D 01
6	1	1	1	3	-3.16065159844707D 01	-3.85879550065405D 01	-4.87784503286796D 01	-6.51345285531988D 01
6	1	1	3	1	-5.74891639661004D 01	-6.86754119957500D 01	-8.52709802766453D 01	-1.12194254579737D 02

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1966ApJS...13..503C

TABLE 1--Continued

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6	2	0	0	4	1.585295651706330D 01	1.856372404280380D 01	2.246194407230220D 01	2.866425235599750D 01
6	2	0	2	2	2.083093677999890D 01	2.341437810155200D 01	2.738495544990690D 01	3.397068832983760D 01
6	2	0	4	0	-9.454654098506990D 00	-1.164187985327620D 01	-1.473569952117570D 01	-1.960551461838920D 01
6	2	2	0	2	-5.276708920532130D 02	-3.649172683955250D 02	-2.954749081322840D 02	-2.705208889897620D 02
6	2	2	2	0	6.008943419651020D 02	4.416981122420010D 02	3.795778458518860D 02	3.685787841282490D 02
6	3	1	1	1	-6.445881775052730D 02	-4.248826673454670D 02	-3.271246465117140D 02	-2.842751604962870D 02
6	4	0	0	2	3.458500652213130D 01	7.221128010035220D 00	-6.735451259368860D 00	-1.681246095476160D 01
6	4	0	2	0	-7.833939436004000D 01	-5.201347981849300D 01	-4.109731714371210D 01	-3.747593376667180D 01
20	TERMS	OF	DEGREE	6				
7	0	1	1	5	2.940188395336040D 00	4.372412868950570D 00	6.473553675326820D 00	9.864663428874980D 00
7	0	1	3	3	1.653143771424340D 01	2.190295568315040D 01	2.982325338456440D 01	4.264004805302810D 01
7	0	1	5	1	1.768992593159520D 01	2.244841359194210D 01	2.949388446241720D 01	4.092138931588080D 01
7	0	3	1	3	-7.399860598887670D 02	-5.942187741726450D 02	-5.659215944815440D 02	-6.225331130046700D 02
7	0	3	3	1	-1.108905552953270D 03	-8.858853697771940D 02	-8.358152853744130D 02	-9.049789313794440D 02
7	0	5	1	1	1.098909623480600D 03	6.704035685125280D 02	4.633426628107100D 02	3.283119434854360D 02
7	1	0	0	6	-5.444793324696350D 00	-7.807880123126000D 00	-1.116129944021860D 01	-1.644110571479160D 01
7	1	0	2	4	-1.494203526620250D 01	-2.154855049754740D 01	-3.090535084983720D 01	-4.561297356339960D 01
7	1	0	4	2	-4.210168337516090D 00	-8.184333681746710D 00	-1.368514962193150D 01	-2.218238966483290D 01
7	1	0	6	0	9.917051781624680D 00	1.096205046988030D 01	1.265292607108700D 01	1.555192987863250D 01
7	1	2	0	4	1.370344555349570D 03	1.061104953879720D 03	9.757268870371440D 02	1.037555188341120D 03
7	1	2	2	2	1.143936518429680D 03	8.671699876823260D 02	7.766205492984040D 02	7.924897704593620D 02
7	1	2	4	0	-1.291220515767120D 03	-1.023742365781270D 03	-9.582206113937920D 02	-1.032575095386370D 03
7	1	4	0	2	-2.035017821260370D 03	-1.197149229486660D 03	-7.988666600184650D 02	-5.471865724757270D 02
7	1	4	2	0	2.035017821260370D 03	1.197149229486660D 03	7.988666600184650D 02	5.471865724757270D 02
7	2	1	1	3	2.030952817128800D 03	1.552490665575640D 03	1.409610613445110D 03	1.488507134623730D 03
7	2	1	3	1	3.046231099010210D 03	2.330852869559930D 03	2.113018271548610D 03	2.211985061579280D 03
7	2	3	1	1	-5.628362520797590D 03	-3.220354069410100D 03	-2.130305360405410D 03	-1.519624817384250D 03
7	3	0	0	4	-3.401115415748590D 02	-2.166982840656820D 02	-1.596364508517350D 02	-1.352449492302140D 02
7	3	0	2	2	-2.492951300587420D 02	-1.312972106473560D 02	-6.539578292371440D 01	-1.503277377995990D 01
7	3	0	4	0	4.091648688614750D 02	3.250800737840220D 02	3.082554791097460D 02	3.387323485879210D 02
7	3	2	0	2	7.609407573303670D 02	3.206784496190400D 02	1.591578788290650D 02	1.146539130236160D 02
7	3	2	2	0	-2.667575996031470D 03	-1.653082176407840D 03	-1.251331407967110D 03	-1.128970991721650D 03
7	4	1	1	1	7.628516192128850D 02	5.106599698909350D 02	4.965539800026500D 02	6.480823881099810D 02
7	5	0	0	2	2.183866618663380D 01	-5.410718082771830D 01	-1.075623588141150D 02	-1.701658974938800D 02
7	5	0	2	0	9.971598662547840D 01	6.308786784876090D 01	5.966398938447650D 01	8.030035545498580D 01
26	TERMS	OF	DEGREE	7				
8	0	0	0	8	9.704769042839880D-01	1.263324260794460D 00	1.695867911134020D 00	2.396506820114550D 00
8	0	0	2	6	3.881907617135950D 00	5.053297043177850D 00	6.783471644536080D 00	9.586027280458210D 00

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TABLE 1--Continued

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8	0	0	6	2	6.36636598872715D-01	6.74068951161014D-01	7.34003801220877D-01	8.35242033474354D-01
8	0	0	8	0	-2.05208159173122D 00	-2.63753446120251D 00	-3.50323460749693D 00	-4.90636315611651D 00
8	0	2	0	6	-8.07325501601119D 02	-6.48160377754083D 02	-6.15206683332995D 02	-6.74600658089898D 02
8	0	2	2	4	-1.96490653119411D 03	-1.55728953121909D 03	-1.45918844742063D 03	-1.57866553413179D 03
8	0	2	4	2	-7.16196200860436D 02	-5.28791857377124D 02	-4.56648531005770D 02	-4.49826083557250D 02
8	0	2	6	0	6.65960750360092D 02	5.59371662629289D 02	5.54506270122627D 02	6.30896786351048D 02
8	0	4	0	4	3.62133498493307D 03	2.56167436407977D 03	2.06770266373801D 03	1.88372725313040D 03
8	0	4	2	2	3.64048724635055D 03	2.29902730775941D 03	1.68510733293097D 03	1.35617165166369D 03
8	0	4	4	0	-2.81952879267329D 03	-2.10805728060866D 03	-1.78161448286919D 03	-1.69527974477757D 03
8	0	6	0	2	-2.29244965190174D 03	-9.22172593301134D 02	-3.26896643687487D 02	8.81663150861233D 01
8	0	6	2	0	1.82011410886052D 03	7.25951479983485D 02	2.68578034226367D 02	-4.34126085263612D 01
8	1	1	1	5	-1.69285175410834D 03	-1.38282715015414D 03	-1.33252276751156D 03	-1.48378813379301D 03
8	1	1	3	3	-5.13867248457107D 03	-4.16309709437488D 03	-3.98688772795659D 03	-4.41293077214025D 03
8	1	1	5	1	-3.89155600929931D 03	-3.13599568071143D 03	-2.98773935624838D 03	-3.28349348513742D 03
8	1	3	1	3	1.33414174945022D 04	1.00868622157148D 04	8.44930342946567D 03	8.03760951532368D 03
8	1	3	3	1	2.41935954555393D 04	1.72826176703407D 04	1.41033780746296D 04	1.30865042750175D 04
8	1	5	1	1	-1.52317176324528D 04	-5.88615740458793D 03	-2.05336095832363D 03	4.38596412041614D 02
8	2	0	0	6	7.60129826276975D 02	5.86506720597825D 02	5.33519840383864D 02	5.61889453404276D 02
8	2	0	2	4	1.88381720882941D 03	1.45598441821238D 03	1.32958963692033D 03	1.40494297722284D 03
8	2	0	4	2	7.37699090486421D 02	5.61987267525800D 02	5.05658438349615D 02	5.22919822957206D 02
8	2	0	6	0	-6.06847788488207D 02	-4.84096064901424D 02	-4.56701646542205D 02	-4.98059818163628D 02
8	2	2	0	4	-5.11049437689515D 03	-3.88277825015721D 03	-3.14847693930474D 03	-2.93055342317560D 03
8	2	2	2	2	-7.71383593875511D 03	-4.71626656542137D 03	-3.45081634551308D 03	-2.89816241261581D 03
8	2	2	4	0	1.30281477609761D 04	9.76415068255674D 03	8.32473061034833D 03	8.20473586298324D 03
8	2	4	0	2	7.22609329656590D 03	2.48897990276439D 03	7.89448826113087D 02	-1.00998064776309D 02
8	2	4	2	0	-1.24116514465421D 04	-5.21540972394351D 03	-2.34176096487311D 03	-6.76718436337282D 02
8	3	1	1	3	-2.28556179566075D 03	-2.56624615813515D 03	-2.55677528108622D 03	-2.94014495431652D 03
8	3	1	3	1	-1.23056509637457D 04	-9.51627815908037D 03	-8.40561206299578D 03	-8.76886181465338D 03
8	3	3	1	1	8.16299874197748D 03	4.45155026516327D 03	3.34315979559799D 03	3.39730025689906D 03
8	4	0	0	4	-1.49711672749352D 03	-7.95743518768268D 02	-4.72180158839339D 02	-2.40216313955917D 02
8	4	0	2	2	-1.09199038740909D 03	-7.62191075630933D 02	-5.84884108836894D 02	-4.60843119338699D 02
8	4	0	4	0	-1.93631333035651D 03	-1.60658016783203D 03	-1.52264294868502D 03	-1.68271680592825D 03
8	4	2	0	2	3.44692721231706D 03	5.01680677245073D 02	-6.51568327161909D 02	-1.51653983848425D 03
8	4	2	2	0	1.01834200532949D 03	1.90638259693630D 03	2.26558401302348D 03	2.84941336151546D 03
8	5	1	1	1	4.60912228649315D 03	8.49514375596479D 02	-3.84430061958277D 02	-1.12704178591285D 03
8	6	0	0	2	-2.73592869503310D 02	-8.56047669886894D 01	-1.06721033778603D 02	-1.92446116741182D 02
8	6	0	2	0	8.89986199010456D 02	3.45499189705889D 02	1.52698933819412D 02	3.66610057978972D 01

40 TERMS OF DEGREE 8

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1966ApJS...13..503C

TABLE 1--Continued

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2	2	0	0	0	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01
2 TERMS OF DEGREE 2								
3	0	1	1	1	5.53158535236199D-01	5.57040998217469D-01	5.61104253170239D-01	5.65355042966983D-01
3	1	0	0	2	-8.92191185864837D-01	-8.70376559714795D-01	-8.50157959348847D-01	-8.31404474951446D-01
3	1	0	2	0	-7.20712039941615D-01	-6.92123440285205D-01	-6.64993555802668D-01	-6.39183760342672D-01
3 TERMS OF DEGREE 3								
4	0	0	0	4	5.18586126783936D-02	5.22225935828877D-02	5.26035237347099D-02	5.30020352781547D-02
4	0	0	2	2	1.03717225356787D-01	1.04445187165775D-01	1.05207047469420D-01	1.06004070556309D-01
4	0	0	4	0	-8.64310211306560D-02	-8.70376559714795D-02	-8.76725395578498D-02	-8.83367254635911D-02
4	0	2	0	2	1.03368060111675D 00	1.04761406291891D 00	1.06764999404943D 00	1.09438417297640D 00
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4	2	0	0	2	-2.47269864283422D 00	-2.40757743747328D 00	-2.35576811427496D 00	-2.31703781261088D 00
4	2	0	2	0	1.75318962197549D 00	1.72759575019610D 00	1.71170905416220D 00	1.70571099279364D 00
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5	0	1	3	1	-1.26667782034788D 00	-1.37399219901271D 00	-1.49084747058308D 00	-1.61958566952098D 00
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5	1	0	0	4	6.50859929739081D-01	7.28475495525428D-01	8.07177791440359D-01	8.88741526948071D-01
5	1	0	2	2	8.42052886282996D-01	9.81367999674200D-01	1.11974302514919D 00	1.26022933475895D 00
5	1	0	4	0	-1.02957203198688D 00	-9.98011637076959D-01	-9.75250913196572D-01	-9.60986710592158D-01
5	1	2	0	2	4.63501008383107D 01	8.03821404035343D 01	3.20355629776496D 02	-1.60493607584144D 02
5	1	2	2	0	-4.63501008383107D 01	-8.03821404035343D 01	-3.20355629776496D 02	1.60493607584144D 02
5	2	1	1	1	1.01032709647197D 02	1.68912030932056D 02	6.48720587946605D 02	-3.13070038128337D 02
5	3	0	0	2	-2.34185938751029D 01	-3.43869225080894D 01	-1.14066240728096D 02	4.64699665754411D 01
5	3	0	2	0	1.58779933504772D 01	2.71886068822723D 01	1.07150244549663D 02	-5.31590292922789D 01
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6	0	0	2	4	-2.48360053984135D-01	-2.72964320737770D-01	-2.99537085072436D-01	-3.28603290653240D-01
6	0	0	4	2	-1.47476764874577D-01	-1.56408241453702D-01	-1.66352749484777D-01	-1.77517231072067D-01
6	0	0	6	0	1.61954048433121D-01	1.76862619350885D-01	1.93023661935588D-01	2.10758534562808D-01
6	0	2	0	4	-3.69732483771223D 01	-6.56917428805756D 01	-2.68156974834885D 02	1.37589123441062D 02
6	0	2	2	2	-4.42871390580602D 01	-7.61906937369224D 01	-3.01163803708062D 02	1.49634119842332D 02
6	0	2	4	0	2.46437281455810D 01	4.69765846141026D 01	2.04426381035791D 02	-1.11198594836423D 02
6	0	4	0	2	1.09837060441330D 02	1.63219177449560D 02	5.65246410169533D 02	-2.48345717479638D 02
6	0	4	2	0	-8.39179630911045D 01	-1.25146477940152D 02	-4.37694156729253D 02	1.95154237078616D 02
6	1	1	1	3	-9.56753474070461D 01	-1.72477475075715D 02	-7.12576199883967D 02	3.69247432469976D 02
6	1	1	3	1	-1.62803230869656D 02	-2.90553150555421D 02	-1.19049846151792D 03	6.12728911115736D 02

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6	2	0	2	2	4.65101256916514D 01	7.83668051733909D 01	3.03304826668831D 02	-1.47516447515979D 02
6	2	0	4	0	-2.85957651673556D 01	-5.10664967346767D 01	-2.08656560143827D 02	1.06819922230301D 02
6	2	2	0	2	-2.84371205684547D 02	-3.77579358454670D 02	-1.17194190624217D 03	4.62434764344908D 02
6	2	2	2	0	4.10967627543564D 02	5.79321851854009D 02	1.91243373096591D 03	-8.04837736300104D 02
6	3	1	1	1	-2.83430340804235D 02	-3.57290034271443D 02	-1.05689754767482D 03	4.00796724780937D 02
6	4	0	0	2	-2.78991750986304D 01	-4.92232595900527D 01	-1.85630972941229D 02	8.38656451206389D 01
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7	0	1	5	1	6.24257309923926D 01	1.16805190919357D 02	5.00539444449617D 02	-2.68838786584044D 02
7	0	3	1	3	-8.20109476775731D 02	-1.52571962284758D 03	-1.24247021820150D 04	-7.06891392184271D 02
7	0	3	3	1	-1.15973463198516D 03	-2.04221968225961D 03	-1.42644450247452D 04	1.28398077088283D 02
7	0	5	1	1	1.78375064240254D 02	-2.84274681208562D 02	-1.19114933376108D 04	-3.95375137497945D 03
7	1	0	0	6	-2.61849903006789D 01	-5.05422301776637D 01	-2.21465009439847D 02	1.20823926878382D 02
7	1	0	2	4	-7.27210543017815D 01	-1.40422628290300D 02	-6.15252261126960D 02	3.35503769007492D 02
7	1	0	4	2	-3.76570266006265D 01	-7.60241604491742D 01	-3.44173699495306D 02	1.92358135355647D 02
7	1	0	6	0	2.11907656471462D 01	3.57062838924243D 01	1.38919215724296D 02	-6.82964660458807D 01
7	1	2	0	4	1.32275722060602D 03	2.38393691069934D 03	1.88253063363865D 04	1.03954616497687D 03
7	1	2	2	2	9.34721328811223D 02	1.40097416943415D 03	4.93673164774622D 03	-2.22424343808695D 03
7	1	2	4	0	-1.32913351551732D 03	-2.40880276640468D 03	-1.89601036330731D 04	-9.59145398862033D 02
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7	3	0	4	0	4.45665401003477D 02	8.22521012420159D 02	6.44894190448842D 03	2.33300408477012D 02
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7	3	2	2	0	-1.26682052742748D 03	-2.12123174704300D 03	-1.74442666435056D 04	-1.80770524786179D 03
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8	0	0	6	2	1.028762269549 50D 00	1.518303389343 29D 00	4.951255396085 34D 00	-1.908357383280 42D 00
8	0	0	8	0	-7.546025806661 69D 00	-1.422107301758 38D 01	-6.132961670718 08D 01	3.312775897718 54D 01
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8	0	2	2	4	-2.052037899166 44D 03	-3.806676378575 87D 03	-3.202817018702 59D 04	-2.513363128926 12D 03
8	0	2	4	2	-5.238268465821 71D 02	-8.463617452860 59D 02	-5.739539041969 09D 03	-1.654611499211 98D 02
8	0	2	6	0	8.523283249463 46D 02	1.603047789750 77D 03	1.269748237615 95D 04	4.399547041456 67D 02
8	0	4	0	4	1.993304533560 34D 03	2.785031721338 08D 03	1.301651203640 28D 04	-1.355587252527 95D 03
8	0	4	2	2	1.143239660973 92D 03	7.292673818789 97D 02	-1.339729069389 20D 04	-6.832174126976 40D 03
8	0	4	4	0	-1.868684115483 64D 03	-2.693654664081 83D 03	-1.209985864821 96D 04	1.973390771330 32D 03
8	0	6	0	2	6.346475829357 17D 02	2.294043710807 65D 03	3.539006740545 37D 04	7.820070390119 84D 03
8	0	6	2	0	-4.535733402165 30D 02	-1.714308930146 92D 03	-2.726383477570 14D 04	-6.199540456050 99D 03
8	1	1	1	5	-1.998545085716 59D 03	-3.923053739497 37D 03	-3.731687125748 77D 04	-4.615655092712 54D 03
8	1	1	3	3	-5.891154483886 92D 03	-1.135015572596 33D 04	-1.028491182336 09D 05	-1.069254961686 30D 04
8	1	1	5	1	-4.326483462720 89D 03	-8.100548722340 52D 03	-6.798581404039 34D 04	-4.935065817619 48D 03
8	1	3	1	3	9.172159374647 60D 03	1.512748768999 12D 04	1.194858023233 26D 05	1.212058712329 56D 04
8	1	3	3	1	1.430538784305 34D 04	2.133519816582 52D 04	1.229732119593 16D 05	-2.631109506436 56D 03
8	1	5	1	1	3.510390074684 67D 03	1.252610200298 30D 04	1.898603096398 64D 05	4.123414954756 12D 04
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8	2	0	2	4	1.797457003139 20D 03	3.351059838008 36D 03	3.016708409041 20D 04	3.463490051850 71D 03
8	2	0	4	2	6.404329166491 71D 02	1.070425085638 59D 03	6.713418383876 23D 03	-3.604893076944 10D 02
8	2	0	6	0	-6.554053504312 00D 02	-1.246920500213 41D 03	-1.122857290380 19D 04	-1.196863462334 43D 03
8	2	2	0	4	-3.410293654369 33D 03	-6.248286315129 43D 03	-6.448652314183 53D 04	-1.162337091924 38D 04
8	2	2	2	2	-2.804113593778 21D 03	-3.304142361913 55D 03	-3.840990177515 15D 03	6.361391341463 95D 03
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8	2	4	0	2	-9.270169888417 74D 02	-2.903886057407 54D 03	-3.766336569262 68D 04	-6.859016438141 42D 03
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8	3	1	3	1	-1.151747747411 90D 04	-2.326096618940 47D 04	-2.457863002799 54D 05	-3.910544293536 79D 04
8	3	3	1	1	4.769841924557 91D 03	1.084655916428 91D 04	1.328575793419 65D 05	2.535973570305 64D 04
8	4	0	0	4	3.795196263283 16D 01	7.697564916152 40D 02	1.402773532268 97D 04	2.608193344887 36D 03
8	4	0	2	2	-3.148397585885 27D 02	1.799785442556 74D 02	1.389184755205 46D 04	5.111625532469 02D 03
8	4	0	4	0	-2.286427745599 36D 03	-4.599247190727 59D 03	-4.531979619883 53D 04	-5.763333437325 50D 03
8	4	2	0	2	-2.850340345518 35D 03	-7.140823230957 97D 03	-8.798820635246 21D 04	-1.618244868191 21D 04
8	4	2	2	0	4.299982172566 11D 03	9.720048005667 57D 03	1.140966131175 16D 05	2.062959293145 42D 04
8	5	1	1	1	-2.131751585750 39D 03	-5.308484371106 44D 03	-6.625583583389 46D 04	-1.281952017485 33D 04
8	6	0	0	2	-3.770619469603 13D 02	-9.978566053436 88D 02	-1.259813044226 15D 04	-2.252110302094 91D 03
8	6	0	2	0	-1.097782014720 22D 02	-5.843699953392 74D 02	-1.109452832386 76D 04	-2.940266518006 81D 03

40 TERMS OF DEGREE 8

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2	2	0	0	0	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01
2 TERMS OF DEGREE 2								
3	0	1	1	1	5.69800569800570D-01	5.74448529411764D-01	5.79307148650214D-01	5.84385226741468D-01
3	1	0	0	2	-8.14000814000814D-01	-7.97845179738562D-01	-7.82847498175965D-01	-7.68927929922984D-01
3	1	0	2	0	-6.14570614570614D-01	-5.91043709150327D-01	-5.68503853175386D-01	-5.46861543761227D-01
3 TERMS OF DEGREE 3								
4	0	0	0	4	5.34188034188034D-02	5.38545496323529D-02	5.43100451859576D-02	5.47861150070126D-02
4	0	0	2	2	1.06837606837607D-01	1.07709099264706D-01	1.08620090371915D-01	1.09572230014025D-01
4	0	0	4	0	-8.90313390313390D-02	-8.97575827205882D-02	-9.05167419765960D-02	-9.13101916783543D-02
4	0	2	0	2	1.12865659084146D 00	1.17162342401161D 00	1.22486534143598D 00	1.29055263358037D 00
4	0	2	2	0	-5.47227437983740D-01	-6.17564271415391D-01	-6.95914329154919D-01	-7.84678995473141D-01
4	1	1	1	1	4.78824008235773D 00	4.96996582063057D 00	5.19129640700242D 00	5.46113586593028D 00
4	2	0	0	2	-2.29151489655691D 00	-2.27974172920406D 00	-2.28276736599809D 00	-2.30229990979482D 00
4	2	0	2	0	1.71008574369919D 00	1.72568257660784D 00	1.75381635371703D 00	1.79642627168759D 00
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5	0	1	3	1	-1.76309230463716D 00	-1.92500583965282D 00	-2.11002077607321D 00	-2.32433965121293D 00
5	0	3	1	1	4.52952292016039D 01	2.95372257892867D 01	2.25515858201482D 01	1.87308709556216D 01
5	1	0	0	4	9.75105586872097D-01	1.06849900786337D 00	1.17160916263552D 00	1.28782088888576D 00
5	1	0	2	2	1.40605999971022D 00	1.56085113048660D 00	1.72886392472544D 00	1.91537113134019D 00
5	1	0	4	0	-9.55196326670975D-01	-9.58162912252832D-01	-9.70529888869421D-01	-9.93396921403492D-01
5	1	2	0	2	-6.47074702880055D 01	-4.10239247073426D 01	-3.04751159731732D 01	-2.46458828363442D 01
5	1	2	2	0	6.47074702880055D 01	4.10239247073426D 01	3.04751159731732D 01	2.46458828363442D 01
5	2	1	1	1	-1.21542404330024D 02	-7.41696598241653D 01	-5.30113764253079D 01	-4.12299525319483D 01
5	3	0	0	2	1.47390218699126D 01	6.98852233592219D 00	3.56225440766286D 00	1.65272395644964D 00
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11 TERMS OF DEGREE 5								
6	0	0	0	6	-1.20268303816955D-01	-1.32315691051152D-01	-1.46021531268408D-01	-1.61840351648723D-01
6	0	0	2	4	-3.60804911450865D-01	-3.96947073153457D-01	-4.38064593805224D-01	-4.85521054946168D-01
6	0	0	4	2	-1.90161433748248D-01	-2.04617251738050D-01	-2.21316898717653D-01	-2.40835086057874D-01
6	0	0	6	0	2.30461572856778D-01	2.52628556029454D-01	2.77897829772983D-01	3.07111579849531D-01
6	0	2	0	4	5.68178243418431D 01	3.69042687607632D 01	2.80980549101256D 01	2.33043627172683D 01
6	0	2	2	2	5.98353835425525D 01	3.76311526352991D 01	2.77383728711221D 01	2.22670642975574D 01
6	0	2	4	0	-4.84454488706990D 01	-3.30541217859845D 01	-2.63348850164766D 01	-2.27764372052627D 01
6	0	4	0	2	-8.83022200424980D 01	-4.94930564061137D 01	-3.24845571161105D 01	-2.31159318182171D 01
6	0	4	2	0	7.06809104784607D 01	4.04721687558843D 01	2.72028505584974D 01	1.98658990514086D 01
6	1	1	1	3	1.53715043260382D 02	1.00492735795076D 02	7.69128025652136D 01	6.40570029920505D 01
6	1	1	3	1	2.53666964232985D 02	1.65093215342606D 02	1.25893957226630D 02	1.04535874406975D 02

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1966ApJS...13..503C

TABLE 1--Continued

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6	2	0	0	4	-5.29786351298582D 01	-3.28823533191506D 01	-2.38700549312350D 01	-1.88384024090807D 01
6	2	0	2	2	-5.77290370435662D 01	-3.55234273513149D 01	-2.56153954140734D 01	-2.01131483595283D 01
6	2	0	4	0	4.39041441590521D 01	2.83296312497104D 01	2.13992258852365D 01	1.75925049177321D 01
6	2	2	0	2	1.47850928325124D 02	7.45579172070589D 01	4.40290736322931D 01	2.81826634924192D 01
6	2	2	2	0	-2.75532790721778D 02	-1.49577365712160D 02	-9.57750759004560D 01	-6.71115222317522D 01
6	3	1	1	1	1.25059822877318D 02	6.31434757801020D 01	3.88352295628820D 01	2.73739294094090D 01
6	4	0	0	2	2.92612417063769D 01	1.53541406243274D 01	8.89452682868639D 00	5.08674970364085D 00
6	4	0	2	0	3.09206886565451D 01	1.86732298609358D 01	1.36358471516477D 01	1.11395693096120D 01
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7	0	1	3	3	-1.33386201249128D 02	-9.14845345403197D 01	-7.33020589610910D 01	-6.37887775479647D 01
7	0	1	5	1	-1.15912982420468D 02	-7.84240598681436D 01	-6.20654866688403D 01	-5.34029783397032D 01
7	0	3	1	3	2.09254697905459D 02	1.92428553364973D 02	1.55631910028696D 02	1.28088355195947D 02
7	0	3	3	1	5.17605005946670D 02	3.72756626104461D 02	2.79821454510461D 02	2.21452538941334D 02
7	0	5	1	1	-7.03362396845680D 02	-2.80518667378368D 02	-1.43177072722925D 02	-8.10825000093564D 01
7	1	0	0	6	5.26483089694754D 01	3.58581893547332D 01	2.84804770771918D 01	2.45348128456123D 01
7	1	0	2	4	1.46076962386479D 02	9.93827561422124D 01	7.88274349694759D 01	6.77964715737246D 01
7	1	0	4	2	8.53364875283596D 01	5.88949867349455D 01	4.72223117820065D 01	4.09400400782992D 01
7	1	0	6	0	-2.71744066843863D 01	-1.71053004113537D 01	-1.26969143728205D 01	-1.03290841173393D 01
7	1	2	0	4	-2.98935282722082D 02	-2.67261879673573D 02	-2.10313391930670D 02	-1.68537309468352D 02
7	1	2	2	2	-8.16917205648066D 02	-4.76405545269459D 02	-3.27878925649803D 02	-2.46880031530647D 02
7	1	2	4	0	3.35544805761182D 02	2.92872154279061D 02	2.31094665238475D 02	1.86827556231184D 02
7	1	4	0	2	1.00480342406526D 03	3.89609260247734D 02	1.93482530706656D 02	1.06687500012311D 02
7	1	4	2	0	-1.00480342406526D 03	-3.89609260247734D 02	-1.93482530706655D 02	-1.06687500012311D 02
7	2	1	1	3	1.62986844358918D 02	-7.68320719181803D 01	-9.71321837462910D 01	-8.79321093419453D 01
7	2	1	3	1	-6.20176465654547D 02	-5.40623017132783D 02	-4.22419457949 69D 02	-3.38173243909551D 02
7	2	3	1	1	1.47287815844979D 03	5.71896710352235D 02	2.83626455661773D 02	1.58091644116407D 02
7	3	0	0	4	-2.76902971509444D 02	-1.42604182783224D 02	-9.64556920320273D 01	-7.37914916885743D 01
7	3	0	2	2	-1.94025489608364D 02	-1.30188170795046D 02	-9.98229680975608D 01	-8.18476985635054D 01
7	3	0	4	0	-1.54338529093676D 02	-1.28854003882957D 02	-1.03119652203363D 02	-8.55555790828033D 01
7	3	2	0	2	6.38367347110918D 02	2.54712018130203D 02	1.30217042896364D 02	7.29115596144821D 01
7	3	2	2	0	-2.03571215678337D 01	6.66658152388457D 01	6.61760883910489D 01	5.76402423659624D 01
7	4	1	1	1	1.27343950804640D 03	4.15687030900422D 02	1.75587043234046D 02	7.98229523775028D 01
7	5	0	0	2	-1.08492920597462D 02	-1.35838124424805D 01	4.63085952772232D 00	8.15858374645001D 00
7	5	0	2	0	2.53607359486274D 02	9.34131280585397D 01	4.55588038251668D 01	2.51051222192673D 01
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8	0	0	2	6	-2.89029073062388D 01	-1.97277110916112D 01	-1.57382873890601D 01	-1.36417798274498D 01

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1966ApJS...13..503C

TABLE 1--Continued

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8	0	0	6	2	-5.29571051611974D-01	-1.77305945656648D-01	-8.68538935793239D-03	9.74260576551820D-02
8	0	0	8	0	1.43567300396556D 01	9.75868099710378D 00	7.75601448626556D 00	6.69972880687670D 00
8	0	2	0	6	7.76827634052723D 01	1.24470082044564D 02	1.07594859991122D 02	8.85946801923185D 01
8	0	2	2	4	2.94068919819438D 02	3.38951644771941D 02	2.80986084384171D 02	2.29680084285689D 02
8	0	2	4	2	1.06080920198178D 02	7.52356387387764D 01	5.15832775657665D 01	3.68931927874412D 01
8	0	2	6	0	-3.14994878130807D 02	-2.60695689825620D 02	-2.06764581365820D 02	-1.69157600606335D 02
8	0	4	0	4	-6.18516454450235D 02	-3.09213573509068D 02	-1.64516410724818D 02	-8.44490097335864D 01
8	0	4	2	2	-1.38243902542893D 03	-5.87650750474396D 02	-3.13465850030086D 02	-1.85457025981266D 02
8	0	4	4	0	8.21389947291480D 02	4.36475797405483D 02	2.58493493422629D 02	1.58784352012748D 02
8	0	6	0	2	1.04791450161947D 03	3.27344636986635D 02	1.31204135942527D 02	5.66012168092746D 01
8	0	6	2	0	-8.55664339683727D 02	-2.75891582124359D 02	-1.14559792486798D 02	-5.15669572925164D 01
8	1	1	1	5	-1.74344656010347D 02	9.57183371159768D 01	1.12968906997820D 02	9.50104112928056D 01
8	1	1	3	3	1.77411292526664D 02	6.63303283385749D 02	6.09074996199369D 02	5.09055921585723D 02
8	1	1	5	1	7.84737273344553D 02	8.28299358497069D 02	6.81472540263610D 02	5.58387332090644D 02
8	1	3	1	3	4.15446047224169D 02	-8.54899903992798D 01	-4.20728957285135D 01	4.35763329318229D 01
8	1	3	3	1	-3.61946550827912D 03	-2.10918243566512D 03	-1.27705447315684D 03	-7.90314421008870D 02
8	1	5	1	1	5.43879668943771D 03	1.67565616419720D 03	6.64226833592768D 02	2.84653089741555D 02
8	2	0	0	6	2.02214660555520D 02	5.79990146029134D 01	3.12645174250269D 01	2.60878306575780D 01
8	2	0	2	4	9.43521323245771D 01	-9.03625994522846D 01	-9.53307392480911D 01	-7.93284426224131D 01
8	2	0	4	2	-3.32710352248640D 02	-2.27823201969450D 02	-1.71415940553759D 02	-1.39036557484915D 02
8	2	0	6	0	2.73913015130454D 00	5.90262967603457D 01	5.47406675200541D 01	4.48334343632779D 01
8	2	2	0	4	-1.53378008548916D 03	-5.59059098129749D 02	-3.00605189200640D 02	-1.97566659553899D 02
8	2	2	2	2	1.72934285908238D 03	8.44885316249224D 02	5.00861717422492D 02	3.28887530249787D 02
8	2	2	4	0	8.71977567740099D 02	-2.28562618513044D 02	-3.33957980526258D 02	-3.05019625105376D 02
8	2	4	0	2	-7.41111273311377D 02	-1.81616203065932D 02	-5.51895067621286D 01	-1.74681191389888D 01
8	2	4	2	0	2.75329522206898D 03	8.77099340219058D 02	3.66585416462634D 02	1.72949187179146D 02
8	3	1	1	3	-2.52617434754341D 03	-5.28281927528891D 02	-1.07602382984091D 01	1.86574246553295D 02
8	3	1	3	1	-3.51458965597248D 03	-4.72595190659034D 02	1.90961070532646D 02	3.95188743717123D 02
8	3	3	1	1	3.00249598593800D 03	8.10386673275358D 02	2.55963027256958D 02	6.11113905360121D 01
8	4	0	0	4	1.35315081378063D 02	-9.60983242284538D 01	-1.46667378958965D 02	-1.60156437195796D 02
8	4	0	2	2	9.68771835455613D 02	4.09867317539493D 02	2.24066073003697D 02	1.38961611343787D 02
8	4	0	4	0	-1.71847878209888D 02	1.96761670608024D 02	2.38359976576418D 02	2.32305269098910D 02
8	4	2	0	2	-1.81343126828923D 03	-4.63000464619875D 02	-1.41663502457047D 02	-3.75705502363612D 01
8	4	2	2	0	2.32267832066949D 03	6.06885694411664D 02	1.94087118821382D 02	5.61994332727045D 01
8	5	1	1	1	-1.60422600557430D 03	-5.01223297549533D 02	-2.18145737728195D 02	-1.13671328210148D 02
8	6	0	0	2	-2.22518516673959D 02	-3.83095767368256D 01	1.91075542607343D 00	1.24044061076489D 01
8	6	0	2	0	-4.74017845489358D 02	-1.81017151514434D 02	-9.13190040947706D 01	-5.22606558397073D 01

40 TERMS OF DEGREE 8

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TABLE 1--Continued

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2	2	0	0	0	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01
2 TERMS OF DEGREE 2								
3	0	1	1	1	5.89692180681684D-01	6.01033778098329D-01	6.07090820786790D-01	6.13421666053245D-01
3	1	0	0	2	-7.56015616258569D-01	-7.32968022071133D-01	-7.22727167603321D-01	-7.13281007038657D-01
3	1	0	2	0	-5.26035665792713D-01	-4.86544173050818D-01	-4.67749022872869D-01	-4.49509690635762D-01
3 TERMS OF DEGREE 3								
4	0	0	0	4	5.52836419389079D-02	5.63469166967184D-02	5.69147644487616D-02	5.75082811924917D-02
4	0	0	2	2	1.10567283877816D-01	1.12693833393437D-01	1.13829528897523D-01	1.15016562384983D-01
4	0	0	4	0	-9.21394032315131D-02	-9.39115278278639D-02	-9.48579407479359D-02	-9.58471353208195D-02
4	0	2	0	2	1.37170272691423D 00	1.59945894211448D 00	1.76169423133121D 00	1.97411660130461D 00
4	0	2	2	0	-8.87077331876690D-01	-1.15252722133940D 00	-1.33149948871018D 00	-1.55941834139841D 00
4	1	1	1	1	5.79174374048955D 00	6.71216137427777D 00	7.36474695247949D 00	8.21752312256517D 00
4	2	0	0	2	-2.34095351698932D 00	-2.49332238366465D 00	-2.62208371657325D 00	-2.80351312111700D 00
4	2	0	2	0	1.85632812195178D 00	2.04639066288956D 00	2.19188897395223D 00	2.38881486121080D 00
8 TERMS OF DEGREE 4								
5	0	1	1	3	-1.10882853994240D 00	-1.45017703928998D 00	-1.68259897654921D 00	-1.98029624092549D 00
5	0	1	3	1	-2.57636931464478D 00	-3.24562196442756D 00	-3.70503445622896D 00	-4.29578924419082D 00
5	0	3	1	1	1.64357041975458D 01	1.42017002734058D 01	1.38399613746694D 01	1.38974997092342D 01
5	1	0	0	4	1.42157505120820D 00	1.76850858449997D 00	2.00309401970145D 00	2.30267004758778D 00
5	1	0	2	2	2.12720111574191D 00	2.66758157461438D 00	3.02847378140097D 00	3.48633233393810D 00
5	1	0	4	0	-1.02848032165565D 00	-1.14703356310824D 00	-1.24051842715309D 00	-1.36854948999301D 00
5	1	2	0	2	-2.10714156378792D 01	-1.73191466748851D 01	-1.64761444936541D 01	-1.61598833828304D 01
5	1	2	2	0	2.10714156378792D 01	1.73191466748851D 01	1.64761444936541D 01	1.61598833828304D 01
5	2	1	1	1	-3.38849280049963D 01	-2.56967333957220D 01	-2.34624377735986D 01	-2.20732104430140D 01
5	3	0	0	2	4.33128038420830D-01	-1.10027119962991D 00	-1.67360514910330D 00	-2.21774766490478D 00
5	3	0	2	0	-6.77954896817050D 00	-5.55465778537680D 00	-5.28477254598314D 00	-5.18943019931477D 00
11 TERMS OF DEGREE 5								
6	0	0	0	6	-1.80387090968682D-01	-2.29466853951018D-01	-2.63078835284809D-01	-3.06251366506834D-01
6	0	0	2	4	-5.41161272906047D-01	-6.88400561853054D-01	-7.89236505854426D-01	-9.18754099520502D-01
6	0	0	4	2	-2.63954137920447D-01	-3.25856302030559D-01	-3.68586761717123D-01	-4.23680039289129D-01
6	0	0	6	0	3.41410173133981D-01	4.32318226727741D-01	4.94643488799118D-01	5.74738194268760D-01
6	0	2	0	4	2.04515567915878D 01	1.77817494355195D 01	1.74515760632494D 01	1.77143099044323D 01
6	0	2	2	2	1.89055441338716D 01	1.53494660749804D 01	1.45272060239487D 01	1.41856775062548D 01
6	0	2	4	0	-2.07771242008484D 01	-1.93497542049956D 01	-1.95735929495854D 01	-2.04222401379217D 01
6	0	4	0	2	-1.72393498006286D 01	-1.01791630416734D 01	-7.72068311398526D 00	-5.48149465601656D 00
6	0	4	2	0	1.52385831352707D 01	9.61386533754110D 00	7.61549723960099D 00	5.75764622587939D 00
6	1	1	1	3	5.64040242289844D 01	4.93025190147770D 01	4.85141573870241D 01	4.94021914014181D 01
6	1	1	3	1	9.18108621519223D 01	7.98693270118609D 01	7.83677377645602D 01	7.94974609726675D 01

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1966ApJS...13..503C

TABLE 1--Continued

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6	1	3	1	1	-8.32767511176906D 01	-4.82756789736939D 01	-3.65147151275863D 01	-2.61375369346417D 01
6	2	0	0	4	-1.57048689962227D 01	-1.22807621588567D 01	-1.14258985718840D 01	-1.10078943987177D 01
6	2	0	2	2	-1.67022970108759D 01	-1.29743626655572D 01	-1.20143939921771D 01	-1.14829397394200D 01
6	2	0	4	0	1.52960206978181D 01	1.30570657918585D 01	1.27103114476295D 01	1.28149120432622D 01
6	2	2	0	2	1.89038331664932D 01	9.07806353475924D 00	6.29358325273562D 00	4.23325309182835D 00
6	2	2	2	0	-4.99200019303874D 01	-3.13295695221520D 01	-2.61184127320447D 01	-2.24715120251614D 01
6	3	1	1	1	2.17259035517432D 01	1.89189992500196D 01	2.03431510992879D 01	2.36964857499374D 01
6	4	0	0	2	2.48848595768787D 00	-1.22895580884586D 00	-2.90771762937264D 00	-4.77188675348622D 00
6	4	0	2	0	9.85100362896814D 00	9.21142217544244D 00	9.62117999685994D 00	1.05751548280677D 01
20	TERMS	OF	DEGREE	6				
7	0	1	1	5	-1.73800540061424D 01	-1.68628280312745D 01	-1.74035379791270D 01	-1.85292896633574D 01
7	0	1	3	3	-5.85796185831528D 01	-5.53912138202756D 01	-5.65233202573959D 01	-5.95494379990850D 01
7	0	1	5	1	-4.85317987974870D 01	-4.50254195453382D 01	-4.55386555674336D 01	-4.75596521686147D 01
7	0	3	1	3	1.08762717278584D 02	8.60817635699170D 01	8.01490059926939D 01	7.70533100845042D 01
7	0	3	3	1	1.82986231530026D 02	1.38182284491075D 02	1.25192441308131D 02	1.16225280068329D 02
7	0	5	1	1	-4.74017534870595D 01	-1.22270813863594D 01	-9.29410974013805D-01	9.37357138118317D 00
7	1	0	0	6	2.22821205206954D 01	2.05644244283836D 01	2.07184975941988D 01	2.15456856550667D 01
7	1	0	2	4	6.14557335071421D 01	5.64585395529453D 01	5.67251413691118D 01	5.88060998507018D 01
7	1	0	4	2	3.73192948336327D 01	3.44567367267118D 01	3.46058393060512D 01	3.57890602712893D 01
7	1	0	6	0	-8.94557743050039D 00	-7.71452577481336D 00	-7.60889246221770D 00	-7.80833941019909D 00
7	1	2	0	4	-1.39439381126390D 02	-1.04977760451118D 02	-9.54154833246357D 01	-8.95968721912840D 01
7	1	2	2	2	-1.97068132758733D 02	-1.40957208044855D 02	-1.24104254155202D 02	-1.11151082938848D 02
7	1	2	4	0	1.56451152549927D 02	1.21618077001111D 02	1.12774348035389D 02	1.08365924610246D 02
7	1	4	0	2	6.07714788295635D 01	1.49110748614139D 01	1.10644163573074D 00	-1.08995016060269D 01
7	1	4	2	0	-6.07714788295635D 01	-1.49110748614139D 01	-1.10644163573071D 00	1.08995016060269D 01
7	2	1	1	3	-7.62026008929508D 01	-6.08024205064134D 01	-5.81448905971491D 01	-5.93442215408051D 01
7	2	1	3	1	-2.81329710873507D 02	-2.18601653410502D 02	-2.04436889592456D 02	-1.99692980416509D 02
7	2	3	1	1	9.39910248546331D 01	3.60778778191485D 01	2.21948798438743D 01	1.29091130793327D 01
7	3	0	0	4	-6.03943733607764D 01	-4.52687425339108D 01	-4.05369529318408D 01	-3.67296118713966D 01
7	3	0	2	2	-6.99699713455845D 01	-5.55603206029793D 01	-5.10857190959890D 01	-4.77777301740942D 01
7	3	0	4	0	-7.38625538850671D 01	-6.15008555685654D 01	-5.92575441465450D 01	-5.93947218031274D 01
7	3	2	0	2	4.08615338006859D 01	5.21562915702810D 00	-7.33223648722981D 00	-1.95362010093277D 01
7	3	2	2	0	5.03906589646994D 01	4.26484190024939D 01	4.18321562978744D 01	4.30962667517485D 01
7	4	1	1	1	3.33134659117533D 01	-9.26745030815530D 00	-2.15378370310390D 01	-3.24560968144744D 01
7	5	0	0	2	7.80269918392737D 00	4.34660539650765D 00	2.19516184106973D 00	-2.66550911992831D-01
7	5	0	2	0	1.44142176646704D 01	3.54440396247097D 00	7.24075008253608D-02	-3.12526148759771D 00
26	TERMS	OF	DEGREE	7				
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8	0	0	2	6	-1.24823721852317D 01	-1.17254847117952D 01	-1.19281246369968D 01	-1.25281519701553D 01

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TABLE 1--Continued

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8	0	0	6	2	1.77573246317512D-01	3.16855596796483D-01	3.93018402423646D-01	4.84969306918379D-01
8	0	0	8	0	6.11086816126526D 00	5.70739134236639D 00	5.79058654653511D 00	6.06619884780643D 00
8	0	2	0	6	7.32808457541817D 01	5.20704983956284D 01	4.44446678017564D 01	3.77931912654844D 01
8	0	2	2	4	1.91435016667544D 02	1.43085692763458D 02	1.28131707893338D 02	1.17257345154404D 02
8	0	2	4	2	2.77567778675785D 01	1.87030847189660D 01	1.70424853268015D 01	1.68691417726080D 01
8	0	2	6	0	-1.43025596122956D 02	-1.10996879383790D 02	-1.01119138849330D 02	-9.37913914016938D 01
8	0	4	0	4	-3.41921388701203D 01	2.97943615389927D 01	5.63960083571901D 01	8.56022151823221D 01
8	0	4	2	2	-1.15232292626268D 02	-4.38101343008011D 01	-2.32507030152801D 01	-7.19959943622893D 00
8	0	4	4	0	9.51951796621149D 01	1.36967758284562D 01	-1.92360714609591D 01	-5.39501299266838D 01
8	0	6	0	2	2.29241894617859D 01	-2.61691997803885D 00	-7.07083455693275D 00	-8.67077429237455D 00
8	0	6	2	0	-2.22012501736378D 01	1.48528839979500D 00	6.21065685669390D 00	8.45853269325492D 00
8	1	1	1	5	7.28397963974394D 01	3.20141522522606D 01	1.23864178855489D 01	-9.01807292546744D 00
8	1	1	3	3	4.21057440210396D 02	2.91811148131973D 02	2.42749847961984D 02	1.98131259620549D 02
8	1	1	5	1	4.67574920362584D 02	3.52244624716398D 02	3.15741047410944D 02	2.88152083430687D 02
8	1	3	1	3	1.20123115092378D 02	2.52192335070211D 02	3.23911237451573D 02	4.14893092560170D 02
8	1	3	3	1	-4.79790431366280D 02	-9.91121524190607D 01	4.17737317658875D 01	1.79690074335304D 02
8	1	5	1	1	1.15706255475445D 02	-1.00053862873997D 01	-3.16225986038730D 01	-3.98355976409988D 01
8	2	0	0	6	2.65886685763360D 01	3.25496738515671D 01	3.70718000127390D 01	4.30362569198259D 01
8	2	0	2	4	-6.32274007582632D 01	-3.96965742783370D 01	-3.15715729798438D 01	-2.50877377268455D 01
8	2	0	4	2	-1.19649353558465D 02	-1.02378438791863D 02	-1.01117742661187D 02	-1.04411833269044D 02
8	2	0	6	0	3.58930737487596D 01	2.24339542541495D 01	1.71056955190130D 01	1.20365600301591D 01
8	2	2	0	4	-1.45386274594329D 02	-9.41870909892165D 01	-8.00122912925081D 01	-7.00124839145243D 01
8	2	2	2	2	2.31085695067582D 02	1.34576438907819D 02	1.13911600258916D 02	1.08639073192078D 02
8	2	2	4	0	-2.62109628822970D 02	-2.02178286847209D 02	-1.88399370839195D 02	-1.85923097693436D 02
8	2	4	0	2	-5.39810820146642D 00	-1.74991463692166D 00	-2.38952831135004D 00	-2.85209169049647D 00
8	2	4	2	0	8.54790784115046D 01	1.65392575380607D 01	1.12618763412246D 00	-1.04584721836380D 01
8	3	1	1	3	2.85264572451233D 02	4.05961453330916D 02	4.67104302181013D 02	5.45176501147665D 02
8	3	1	3	1	4.77150867728714D 02	5.74557981138337D 02	6.39316860010842D 02	7.37529213494538D 02
8	3	3	1	1	-1.80122163478982D 01	-6.11127555576366D 01	-5.75853633814156D 01	-4.08468808383371D 01
8	4	0	0	4	-1.64124090005893D 02	-1.70862281266229D 02	-1.79025283200127D 02	-1.93487782988560D 02
8	4	0	2	2	9.27197384276632D 01	4.55427676449776D 01	3.11663497150133D 01	1.82857335693832D 01
8	4	0	4	0	2.20781013411691D 02	2.10629121073105D 02	2.16040506974673D 02	2.31381172092071D 02
8	4	2	0	2	3.75038063885604D-01	1.68820230330895D 01	1.47489726950237D 01	9.02200157646199D 00
8	4	2	2	0	2.46150014859094D 00	-2.89203703603476D 01	-3.17399776607109D 01	-3.10596564993611D 01
8	5	1	1	1	-6.56071378478198D 01	-2.05304110570316D 01	-4.10042932517779D 00	1.52661429755608D 01
8	6	0	0	2	1.41436318862140D 01	9.80018878684925D 00	5.72990147873363D 00	4.87790185956880D-02
8	6	0	2	0	-3.14500728588650D 01	-9.21875632338160D 00	-1.21885464991182D 00	7.23310633993064D 00

40 TERMS OF DEGREE 8

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TABLE 1--Continued

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2	2	0	0	0	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01
2 TERMS OF DEGREE 2								
3	0	1	1	1	6.20039682539683D-01	6.26959247648903D-01	6.34195839675292D-01	6.41766140418431D-01
3	1	0	0	2	-7.04590548340548D-01	-6.96621386276559D-01	-6.89343303994882D-01	-6.82729936615353D-01
3	1	0	2	0	-4.31773088023088D-01	-4.14489724834552D-01	-3.97613217744248D-01	-3.81099850618690D-01
3 TERMS OF DEGREE 3								
4	0	0	0	4	5.81287202380952D-02	5.87774294670846D-02	5.94558599695586D-02	6.01655756642280D-02
4	0	0	2	2	1.16257440476190D-01	1.17554858934169D-01	1.18911719939117D-01	1.20331151328456D-01
4	0	0	4	0	-9.68812003968254D-02	-9.79623824451410D-02	-9.90930999492643D-02	-1.00275959440380D-01
4	0	2	0	2	2.26146990551760D 00	2.66834507608857D 00	3.28398092341312D 00	4.31666822174546D 00
4	0	2	2	0	-1.86113436668774D 00	-2.28133319482382D 00	-2.90933782341590D 00	-3.95351400014155D 00
4	1	1	1	1	9.36955516410303D 00	1.09992850464720D 01	1.34637364061500D 01	1.75961323869936D 01
4	2	0	0	2	-3.06214098317731D 00	-3.44236883861808D 00	-4.03326712340755D 00	-5.04297666495328D 00
4	2	0	2	0	2.66180544434745D 00	3.05535695735333D 00	3.65862402341033D 00	4.67982244334937D 00
8 TERMS OF DEGREE 4								
5	0	1	1	3	-2.37637222347729D 00	-2.93037786079445D 00	-3.76138101637236D 00	-5.14717329373576D 00
5	0	1	3	1	-5.08405157417961D 00	-6.18888890155309D 00	-7.84840901422700D 00	-1.06181731494468D 01
5	0	3	1	1	1.44112379497444D 01	1.55188335161332D 01	1.75494478091573D 01	2.13166324815436D 01
5	1	0	0	4	2.70042298122419D 00	3.25597540088272D 00	4.08845762649169D 00	5.47571626993166D 00
5	1	0	2	2	4.09102072849067D 00	4.93204774455423D 00	6.18817624645402D 00	8.27623736557675D 00
5	1	0	4	0	-1.54748050091379D 00	-1.80691390211718D 00	-2.20623192108175D 00	-2.88419696719540D 00
5	1	2	0	2	-1.63764067610731D 01	-1.72431483512591D 01	-1.90754867490840D 01	-2.26772685973868D 01
5	1	2	2	0	1.63764067610731D 01	1.72431483512591D 01	1.90754867490840D 01	2.26772685973868D 01
5	2	1	1	1	-2.14428224536427D 01	-2.16283635337552D 01	-2.29041570494267D 01	-2.60451977314851D 01
5	3	0	0	2	-2.79532327494170D 00	-3.48492722167083D 00	-4.41838353945216D 00	-5.88229334453976D 00
5	3	0	2	0	-5.27075382914149D 00	-5.56798228159828D 00	-6.18632377478070D 00	-7.39379869333078D 00
11 TERMS OF DEGREE 5								
6	0	0	0	6	-3.63809862133409D-01	-4.44437041155659D-01	-5.65495511839838D-01	-7.67495405439343D-01
6	0	0	2	4	-1.09142958640023D 00	-1.33331112346698D 00	-1.69648653551951D 00	-2.30248621631803D 00
6	0	0	4	2	-4.97336530530903D-01	-6.00716658268365D-01	-7.56141281426424D-01	-1.01569289288409D 00
6	0	0	6	0	6.81563085519634D-01	8.31242597502727D-01	1.05602107522903D 00	1.43113122727976D 00
6	0	2	0	4	1.86653317795061D 01	2.05829594181179D 01	2.41384648182637D 01	3.11210662150986D 01
6	0	2	2	2	1.43243185339815D 01	1.50420434232145D 01	1.66121846567606D 01	1.97362550658982D 01
6	0	2	4	0	-2.20538261060627D 01	-2.48397996651104D 01	-2.96227867819624D 01	-3.85793211417086D 01
6	0	4	0	2	-3.11775985069605D 00	-1.12207932440222D-01	4.63133663492962D 00	1.42291503095153D 01
6	0	4	2	0	3.74144612295472D 00	1.09284658825815D 00	-3.22576835327301D 00	-1.22169580552952D 01
6	1	1	1	3	5.22871477841605D 01	5.80530564733808D 01	6.88364021299278D 01	9.04380369453172D 01
6	1	1	3	1	8.36707132306598D 01	9.20964277316345D 01	1.07681709797716D 02	1.38127550270213D 02

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TABLE 1--Continued

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6	1	3	1	1	-1.55891044855699D 01	-2.67789893488528D 00	1.70806630178318D 01	5.62683156698096D 01
6	2	0	0	4	-1.10432749160397D 01	-1.16687386226492D 01	-1.32726232958275D 01	-1.69842725856020D 01
6	2	0	2	2	-1.13548547217041D 01	-1.16846036139780D 01	-1.26564043357652D 01	-1.47635881044864D 01
6	2	0	4	0	1.34419479718371D 01	1.48064322665629D 01	1.74383518191945D 01	2.27849718584081D 01
6	2	2	0	2	2.62192602904536D 00	1.26330576561138D 00	-2.02957615710884D-02	-1.47165452448509D 00
6	2	2	2	0	-1.99841066221111D 01	-1.84610821775968D 01	-1.79027924023809D 01	-1.86287147940819D 01
6	3	1	1	1	2.97329704586140D 01	4.03165420950782D 01	6.00885949709770D 01	1.02655952495066D 02
6	4	0	0	2	-7.13590359303810D 00	-1.05673865880494D 01	-1.63385704272467D 01	-2.80379422875260D 01
6	4	0	2	0	1.22996108518014D 01	1.53193400695599D 01	2.09073648669074D 01	3.27258731394948D 01
20	TERMS	OF	DEGREE	6				
7	0	1	1	5	-2.04312359158973D 01	-2.35264035863082D 01	-2.87494371025781D 01	-3.85343419932696D 01
7	0	1	3	3	-6.50174785041186D 01	-7.41718587737269D 01	-8.98328792487934D 01	-1.19365789505454D 02
7	0	1	5	1	-5.14717935552127D 01	-5.81804371719514D 01	-6.97498985977949D 01	-9.15475071233419D 01
7	0	3	1	3	7.68095187882678D 01	8.00474774933485D 01	8.85991590745921D 01	1.07573870420507D 02
7	0	3	3	1	1.10368797820194D 02	1.06921001257399D 02	1.04844572618659D 02	1.00693510676571D 02
7	0	5	1	1	2.05659859306595D 01	3.52445024688624D 01	5.86245770231188D 01	1.04969201412010D 02
7	1	0	0	6	2.32173135407924D 01	2.61404484292314D 01	3.12493881549762D 01	4.09939808439038D 01
7	1	0	2	4	6.31427186066556D 01	7.07973772815598D 01	8.42114376053938D 01	1.09769708638105D 02
7	1	0	4	2	3.82476081769827D 01	4.25583585468304D 01	5.00287890533405D 01	6.40081457112233D 01
7	1	0	6	0	-8.36834243532657D 00	-9.44537537970064D 00	-1.14177446020327D 01	-1.53073030211966D 01
7	1	2	0	4	-8.72835440775771D 01	-8.89416416592762D 01	-9.63034337767305D 01	-1.14440287681390D 02
7	1	2	2	2	-1.00234997378402D 02	-8.90797106248783D 01	-7.31104208390417D 01	-3.85909808577159D 01
7	1	2	4	0	1.08412515145881D 02	1.13944016560407D 02	1.27986571773642D 02	1.59107811593352D 02
7	1	4	0	2	-2.33704385575676D 01	-3.91605582987360D 01	-6.37223663294770D 01	-1.11669363204266D 02
7	1	4	2	0	2.33704385575676D 01	3.91605582987360D 01	6.37223663294770D 01	1.11669363204266D 02
7	2	1	1	3	-6.56658444952406D 01	-8.02436641263702D 01	-1.11064624160230D 02	-1.81957985332521D 02
7	2	1	3	1	-2.05164576380188D 02	-2.24482563120639D 02	-2.67535319136224D 02	-3.63003467606673D 02
7	2	3	1	1	6.35239747137123D 00	1.36484990938517D 00	-2.90905285347058D 00	-7.37860742861091D 00
7	3	0	0	4	-3.33156034398845D 01	-2.95745521704914D 01	-2.39614833293313D 01	-1.17694168469833D 01
7	3	0	2	2	-4.53274742938583D 01	-4.33976926527420D 01	-4.13056359644226D 01	-3.67855864359874D 01
7	3	0	4	0	-6.23299425632874D 01	-6.93036656478642D 01	-8.34511288917597D 01	-1.13656651437322D 02
7	3	2	0	2	-3.35667959068216D 01	-5.27195776980870D 01	-8.39091504489147D 01	-1.46275956815400D 02
7	3	2	2	0	4.69871682256662D 01	5.49236097432600D 01	7.04555721424939D 01	1.03822119732399D 02
7	4	1	1	1	-4.43907512861152D 01	-6.03377701163779D 01	-8.60516816893431D 01	-1.36899326161070D 02
7	5	0	0	2	-3.33791125224792D 00	-7.67943772003972D 00	-1.48567728557956D 01	-2.93828665216772D 01
7	5	0	2	0	-6.65187910668838D 00	-1.13483529656334D 01	-1.89219150693137D 01	-3.40703534609418D 01
26	TERMS	OF	DEGREE	7				
8	0	0	0	8	-3.40884761161600D 00	-3.87559426999036D 00	-4.67553926430348D 00	-6.18184037638658D 00
8	0	0	2	6	-1.36353904464640D 01	-1.55023770799614D 01	-1.87021570572139D 01	-2.47273615055463D 01

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1966ApJS...13..503C

TABLE 1--Continued

					SA= 0.88 SB= 1.00 A= 0.7744 B= 1.0000	SA= 0.90 SB= 1.00 A= 0.8100 B= 1.0000	SA= 0.92 SB= 1.00 A= 0.8464 B= 1.0000	SA= 0.94 SB= 1.00 A= 0.8836 B= 1.0000
8	0	0	4	4	-1.534527669072170D 01	-1.737196472336510D 01	-2.086587631017640D 01	-2.745745676000210D 01
8	0	0	6	2	6.060619568719710D-01	7.806666467110940D-01	1.061562334681320D 00	1.589327077574350D 00
8	0	0	8	0	6.585489683619580D 00	7.467721308171700D 00	8.984127908394690D 00	1.184077015981130D 01
8	0	2	0	6	3.131679461748680D 01	2.381998218810540D 01	1.282711647522200D 01	-8.493179077729840D 00
8	0	2	2	4	1.094698041488880D 02	1.038977002846820D 02	9.924053280160260D 01	9.182248954569510D 01
8	0	2	4	2	1.829029344988420D 01	2.188125079686980D 01	2.918738919328530D 01	4.442016009047640D 01
8	0	2	6	0	-8.819226877403020D 01	-8.336107149656240D 01	-7.739713286096720D 01	-5.453956226161640D 01
8	0	4	0	4	1.233015611888260D 02	1.801778365532140D 02	2.812747439865820D 02	5.028371403172990D 02
8	0	4	2	2	6.243921785835530D 00	1.747382829299760D 01	2.285341823069080D 01	-1.354484516254990D 00
8	0	4	4	0	-9.673050557266900D 01	-1.584967987478200D 02	-2.638223776594270D 02	-4.838870176360030D 02
8	0	6	0	2	-7.456202970026690D 00	-1.561538402710680D 00	1.601574343334640D 01	7.344367670907370D 01
8	0	6	2	0	8.254715761977520D 00	3.913906618069150D 00	-1.101968839155900D 01	-6.305412084357290D 01
8	1	1	1	5	-3.527140976460950D 01	-7.208389715636840D 01	-1.320851812520370D 02	-2.495787803806080D 02
8	1	1	3	3	1.526016891263790D 02	9.769262830133750D 01	1.566858392336330D 01	-1.416088228091960D 02
8	1	1	5	1	2.666225069129180D 02	2.479621408899080D 02	2.263302801047800D 02	1.851033635329140D 02
8	1	3	1	3	5.462709104359480D 02	7.619596551409550D 02	1.173252325527120D 03	2.142614393937990D 03
8	1	3	3	1	3.370226547830110D 02	5.474581547032930D 02	8.781233282429320D 02	1.497864994097290D 03
8	1	5	1	1	-3.570663348182770D 01	-1.216765560173300D 01	5.877267788022930D 01	2.904208458566950D 02
8	2	0	0	6	5.135736834737860D 01	6.386659171942110D 01	8.461254106872030D 01	1.242614913374860D 02
8	2	0	2	4	-1.974718030514980D 01	-1.510763475697790D 01	-1.072191770222940D 01	-6.181260280704950D 00
8	2	0	4	2	-1.132645262250260D 02	-1.303933824277170D 02	-1.624203299802200D 02	-2.275224088781710D 02
8	2	0	6	0	6.568427595445430D 00	-3.810891903356810D-01	-1.109965954546280D 01	-3.173654609359920D 01
8	2	2	0	4	-6.377807673368140D 01	-6.295524641632530D 01	-7.508764546548600D 01	-1.340142267792240D 02
8	2	2	2	2	1.247181030737270D 02	1.830014813372580D 02	3.513893660864260D 02	8.985058853562220D 02
8	2	2	4	0	-1.976071908676880D 02	-2.318748772223580D 02	-3.128018863126490D 02	-5.225899771856140D 02
8	2	4	0	2	-2.080748977223390D 00	2.075193459497400D 00	1.610555753904520D 01	6.585185679919210D 01
8	2	4	2	0	-2.208102918961450D 01	-3.852982025646190D 01	-7.038083407615770D 01	-1.534803841008450D 02
8	3	1	1	3	6.557172177311860D 02	8.259479595723840D 02	1.113213140469550D 03	1.660660924906580D 03
8	3	1	3	1	8.962731857115610D 02	1.171649912790420D 03	1.704422180031420D 03	2.942448129402540D 03
8	3	3	1	1	-4.120969971400780D 00	7.426018629491870D 01	2.610075609164350D 02	8.080961833046680D 02
8	4	0	0	4	-2.181723388586550D 02	-2.609076119782690D 02	-3.400473935125130D 02	-5.086722529924250D 02
8	4	0	2	2	3.605459174795910D 00	-1.869618805789280D 01	-6.383638010759070D 01	-1.867512463979790D 02
8	4	0	4	0	2.615890117812180D 02	3.175772373810400D 02	4.265092621718770D 02	6.714581213423510D 02
8	4	2	0	2	-9.100188717117970D-01	-1.855263606686890D 01	-5.482041010129040D 01	-1.490673408882190D 02
8	4	2	2	0	-2.735325559637300D 01	-1.874449067416060D 01	2.263619418071220D 00	6.561412335830240D 01
8	5	1	1	1	4.422351312632540D 01	9.671009920546310D 01	2.110946092058240D 02	5.259402528705650D 02
8	6	0	0	2	-8.679004988738280D 00	-2.409348965293090D 01	-5.651524706380400D 01	-1.429409315142580D 02
8	6	0	2	0	1.836550272377200D 01	3.649147214517130D 01	7.288560546608280D 01	1.667677246150710D 02

40 TERMS OF DEGREE 8

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1966ApJS...13..503C

TABLE 1--Continued

					SA= 0.96 SB= 1.00 A= 0.9216 B= 1.0000	SA= 0.98 SB= 1.00 A= 0.9604 B= 1.0000
2	0	2	0	0	5.000000000000000D-01	5.000000000000000D-01
2	2	0	0	0	5.000000000000000D-01	5.000000000000000D-01
2 TERMS OF DEGREE 2						
3	0	1	1	1	6.496881496881500D-01	6.579813133307010D-01
3	1	0	0	2	-6.767584892584890D-01	-6.714095033986750D-01
3	1	0	2	0	-3.649081774081770D-01	-3.489986598666310D-01
3 TERMS OF DEGREE 3						
4	0	0	0	4	6.090826403326400D-02	6.168574812475330D-02
4	0	0	2	2	1.218165280665280D-01	1.233714962495060D-01
4	0	0	4	0	-1.015137733887730D-01	-1.028095802079220D-01
4	0	2	0	2	6.391368172897200D 00	1.263304523247040D 01
4	0	2	2	0	-6.038889793075060D 00	-1.229048936338950D 01
4	1	1	1	1	2.589637076244220D 01	5.086435631808140D 01
4	2	0	0	2	-7.096324932541450D 00	-1.331815697063230D 01
4	2	0	2	0	6.743846552719320D 00	1.297560110155140D 01
8 TERMS OF DEGREE 4						
5	0	1	1	3	-7.921095778221850D 00	-1.624981705223510D 01
5	0	1	3	1	-1.616484708205530D 01	-3.282175686171140D 01
5	0	3	1	1	2.930600917545110D 01	5.400687753341060D 01
5	1	0	0	4	8.251141435647760D 00	1.658144597166850D 01
5	1	0	2	2	1.244637246427710D 01	2.494870302396730D 01
5	1	0	4	0	-4.257361974901240D 00	-8.408957280543270D 00
5	1	2	0	2	-3.052709289109490D 01	-5.510905870756190D 01
5	1	2	2	0	3.052709289109490D 01	5.510905870756190D 01
5	2	1	1	1	-3.350925305181530D 01	-5.776503306656680D 01
5	3	0	0	2	-8.716237951071840D 00	-1.709140204090290D 01
5	3	0	2	0	-1.001666913981520D 01	-1.821635605855670D 01
11 TERMS OF DEGREE 5						
6	0	0	0	6	-1.171964776282960D 00	-2.386542213723930D 00
6	0	0	2	4	-3.515894328848880D 00	-7.159626641171790D 00
6	0	0	4	2	-1.535620384293410D 00	-3.097172378113010D 00
6	0	0	6	0	2.182267718911420D 00	4.437902017580890D 00
6	0	2	0	4	4.782334811965920D 01	1.162022718199110D 02
6	0	2	2	2	2.658168290967970D 01	4.807105314777110D 01
6	0	2	4	0	-5.915168437708300D 01	-1.390288450465550D 02
6	0	4	0	2	4.140303478295430D 01	1.912969499446630D 02
6	0	4	2	0	-3.828330505192890D 01	-1.850014423132500D 02
6	1	1	1	3	1.438854444367470D 02	3.761907969225930D 02
6	1	1	3	1	2.102625789597270D 02	5.002416876341770D 02

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1966ApJS...13..503C

TABLE 1--Continued

					SA= 0.96 SB= 1.00 A= 0.9216 B= 1.0000	SA= 0.98 SB= 1.00 A= 0.9604 B= 1.0000
6	1	3	1	1	1.66013207989340D 02	7.67955902567170D 02
6	2	0	0	4	-2.71169875244799D 01	-7.57318082426366D 01
6	2	0	2	2	-1.95487177C11870D 01	-3.48094973061351D 01
6	2	0	4	0	3.61010020457395D 01	9.41378628554093D 01
6	2	2	0	2	-3.65914292853922D 00	-9.22033611433137D 00
6	2	2	2	0	-2.19004527043003D 01	-3.44223819979047D 01
6	3	1	1	1	2.22846138520966D 02	8.61608632249959D 02
6	4	0	0	2	-5.98624200374379D 01	-2.24408288529094D 02
6	4	0	2	0	6.52625555173589D 01	2.32660353601759D 02
20	TERMS	OF	DEGREE	6		
7	0	1	1	5	-6.13729920335961D 01	-1.53658034705354D 02
7	0	1	3	3	-1.88460582145568D 02	-4.67400495433162D 02
7	0	1	5	1	-1.42098633230401D 02	-3.41956002162137D 02
7	0	3	1	3	1.55013284158104D 02	3.49454606281414D 02
7	0	3	3	1	7.56037532193531D 01	-1.74857967672493D 02
7	0	5	1	1	2.30461716466898D 02	8.82074283665725D 02
7	1	0	0	6	6.39302000349959D 01	1.56793912964647D 02
7	1	0	2	4	1.69656343780630D 02	4.09700784829484D 02
7	1	0	4	2	9.57792228082755D 01	2.15751447158878D 02
7	1	0	6	0	-2.47867338294120D 01	-6.52023592541085D 01
7	1	2	0	4	-1.61472170998025D 02	-3.56586332940219D 02
7	1	2	2	2	7.56421392546215D 01	8.24234614370480D 02
7	1	2	4	0	2.38267680653196D 02	5.76681430184190D 02
7	1	4	0	2	-2.40064287986352D 02	-9.00075799658903D 02
7	1	4	2	0	2.40064287986352D 02	9.00075799658903D 02
7	2	1	1	3	-3.90240940168314D 02	-1.52857550616049D 03
7	2	1	3	1	-6.21273057772651D 02	-1.87368112492313D 03
7	2	3	1	1	-1.38299780381637D 01	-3.00730030605692D 01
7	3	0	0	4	2.78522124486477D 01	2.82199419591042D 02
7	3	0	2	2	-1.86237783648289D 01	1.24506262561960D 02
7	3	0	4	0	-1.93765710C72689D 02	-5.76681007177336D 02
7	3	2	0	2	-3.15283641607440D 02	-1.18987215360623D 03
7	3	2	2	0	1.95193068698485D 02	6.56791560403978D 02
7	4	1	1	1	-2.72275345961679D 02	-9.55129600015828D 02
7	5	0	0	2	-6.93894262342928D 01	-2.81024453275998D 02
7	5	0	2	0	-7.53682172179031D 01	-2.91061858244787D 02
26	TERMS	OF	DEGREE	7		
8	0	0	0	8	-9.68942608256865D 00	-2.37075013051234D 01
8	0	0	2	6	-3.87577043302746D 01	-9.48300052204937D 01

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1966ApJS...13..503C

TABLE 1--Continued

					SA= 0.96 SB= 1.00 A= 0.9216 B= 1.0000	SA= 0.98 SB= 1.00 A= 0.9604 B= 1.0000
8	0	0	4	4	-4.279330848701 29D 01	-1.038304991544 02D 02
8	0	0	6	2	2.881224699586 04D 00	8.679749802592 22D 00
8	0	0	8	0	1.848263532869 67D 01	4.491443772091 52D 01
8	0	2	0	6	-6.617236589158 56D 01	-3.239968969355 10D 02
8	0	2	2	4	6.522365767731 50D 01	-9.967199601126 02D 01
8	0	2	4	2	8.124417556273 32D 01	1.821215195042 04D 02
8	0	2	6	0	-1.970234616603 92D 01	2.454248028436 71D 02
8	0	4	0	4	1.186930204848 11D 03	5.864423516015 10D 03
8	0	4	2	2	-2.360643403929 55D 02	-3.867146733065 61D 03
8	0	4	4	0	-1.114044610231 08D 03	-4.750327684355 65D 03
8	0	6	0	2	3.357553587439 92D 02	3.168775886642 22D 03
8	0	6	2	0	-3.104736421827 85D 02	-3.064503424039 80D 03
8	1	1	1	5	-5.494599069834 84D 02	-1.780242234276 08D 03
8	1	1	3	3	-5.511686708499 86D 02	-2.219936613169 50D 03
8	1	1	5	1	5.613663381629 11D 01	-5.956447704450 68D 02
8	1	3	1	3	5.437343229352 45D 03	3.182855870427 72D 04
8	1	3	3	1	2.949730393545 73D 03	6.996577400982 38D 03
8	1	5	1	1	1.346310418597 45D 03	1.272097818506 53D 04
8	2	0	0	6	2.200046689956 46D 02	5.842899572869 72D 02
8	2	0	2	4	-3.290498583860 54D 00	-7.941155537096 45D 01
8	2	0	4	2	-3.914614607554 26D 02	-1.077276199729 78D 03
8	2	0	6	0	-8.447313171817 32D 01	-2.908702168735 77D 02
8	2	2	0	4	-4.580891889248 46D 02	-4.510213531376 52D 03
8	2	2	2	2	3.410299774098 17D 03	3.101913975370 49D 04
8	2	2	4	0	-1.273940562965 62D 03	-7.585794553610 90D 03
8	2	4	0	2	3.060627332124 70D 02	3.016032667546 38D 03
8	2	4	2	0	-4.802845501812 97D 02	-3.621659973268 61D 03
8	3	1	1	3	2.900067229730 18D 03	5.580863196594 37D 03
8	3	1	3	1	6.992326280332 43D 03	3.730523516126 71D 04
8	3	3	1	1	3.137240431480 94D 03	2.696665209611 16D 04
8	4	0	0	4	-9.842704355379 90D 02	-3.678796356656 21D 03
8	4	0	2	2	-6.925594860081 93D 02	-5.774804112658 90D 03
8	4	0	4	0	1.419347169896 14D 03	6.364115751489 07D 03
8	4	2	0	2	-5.109269624856 91D 02	-3.863215316155 56D 03
8	4	2	2	0	3.442083888101 38D 02	3.273244509319 51D 03
8	5	1	1	1	1.799721579188 43D 03	1.425829766260 11D 04
8	6	0	0	2	-4.827606505487 77D 02	-3.712618993582 66D 03
8	6	0	2	0	5.256670121164 45D 02	3.847466153491 89D 03

40 TERMS OF DEGREE 8

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1966ApJS...13..503C

TABLE 1--Continued

					SA= 1.00 SB= 0.02 A= 1.0000 B= 0.0004	SA= 1.00 SB= 0.04 A= 1.0000 B= 0.0016	SA= 1.00 SB= 0.06 A= 1.0000 B= 0.0036	SA= 1.00 SB= 0.08 A= 1.0000 B= 0.0064
2	0	2	0	0	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01
2	2	0	0	0	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01
2 TERMS OF DEGREE 2								
3	0	1	1	1	-1.00160256410256D 02	-5.03220611916264D 01	-3.38203463203463D 01	-2.56568144499179D 01
3	1	0	0	2	2.00320512820491D 00	2.01288244766506D 00	2.02922077922076D 00	2.05254515599343D 00
3	1	0	2	0	-2.50200320512821D 03	-6.27012882447665D 02	-2.79806998556998D 02	-1.58302545155993D 02
3 TERMS OF DEGREE 3								
4	0	0	0	4	-1.17375300480769D 06	-7.37139568236715D 04	-1.46789697570947D 04	-4.69790303648399D 03
4	0	0	2	2	-2.34750600961538D 06	-1.47427913647343D 05	-2.93579395141895D 04	-9.39580607296798D 03
4	0	0	4	0	1.95625500801282D 06	1.22856594706119D 05	2.44649495951579D 04	7.82983839413998D 03
4	0	2	0	2	2.50550941530431D 03	6.30537846060946D 02	2.83363633612026D 02	1.61904414856064D 02
4	0	2	2	0	-5.00951582556072D 03	-1.25956361095628D 03	-5.65199852948245D 02	-3.22259505168051D 02
4	1	1	1	1	3.00601009634601D 02	1.51208116561378D 02	1.01827618387232D 02	7.74662272038584D 01
4	2	0	0	2	2.50250340520797D 03	6.27513683729718D 02	2.80308805060409D 02	1.58805765767910D 02
4	2	0	2	0	1.50300504844267D 00	1.51208116561145D 00	1.52741427581034D 00	1.54932454407711D 00
8 TERMS OF DEGREE 4								
5	0	1	1	3	-4.70764603288840D 08	-1.49058983209021D 07	-2.00824717720420D 06	-4.93097943619652D 05
5	0	1	3	1	-4.66982887688566D 08	-1.44209584971600D 07	-1.85817581922453D 06	-4.25673155291873D 05
5	0	3	1	1	5.01235739222916D 05	6.31215050856419D 04	1.89369548265865D 04	8.13072917834647D 03
5	1	0	0	4	9.41529206577680D 06	5.96235932836083D 05	1.20494830632252D 05	3.94478354895721D 04
5	1	0	2	2	-1.27544500125380D 07	-8.46365086425235D 05	-1.84437085331911D 05	-6.67770788411869D 04
5	1	0	4	0	1.57079213740323D 07	9.97616173808945D 05	2.02509369151109D 05	6.66522429416660D 04
5	1	2	0	2	-1.00247147844583D 04	-2.52486020342568D 03	-1.13621728959519D 03	-6.50458334267718D 02
5	1	2	2	0	1.00247147844583D 04	2.52486020342568D 03	1.13621728959519D 03	6.50458334267718D 02
5	2	1	1	1	5.00901678712565D 05	6.29533765091416D 04	1.88236317113942D 04	8.04441006263527D 03
5	3	0	0	2	-1.00224877143893D 04	-2.52261848907234D 03	-1.13395082729135D 03	-6.48156491182086D 02
5	3	0	2	0	2.45405990260588D 00	2.48321304937792D 00	2.53284521098448D 00	2.60459781659938D 00
11 TERMS OF DEGREE 5								
6	0	0	0	6	-5.49215215051849D 12	-2.14401669546563D 10	-8.35448871765984D 08	-8.34301259549555D 07
6	0	0	2	4	-1.64764564515554D 13	-6.43205008639689D 10	-2.50634661529795D 09	-2.50290377864866D 08
6	0	0	4	2	-1.76506259877918D 12	-6.09433554794511D 09	-1.81986456496793D 08	-9.51989758183339D 06
6	0	0	6	0	9.14045596058541D 12	3.55231342370391D 10	1.37311548612493D 09	1.35392181044295D 08
6	0	2	0	4	2.04950054750746D 10	3.19575007420625D 08	2.79410906612687D 07	4.93666903879319D 06
6	0	2	2	2	-4.15340562564193D 10	-6.74114158454825D 08	-6.31240819188375D 07	-1.23272500634716D 07
6	0	2	4	0	-3.00856534017163D 10	-4.60929985619079D 08	-3.90147163539701D 07	-6.53602701425659D 06
6	0	4	0	2	-1.25363253194284D 07	-7.90388249608596D 05	-1.58425242641860D 05	-5.11712688055882D 04
6	0	4	2	0	2.50640869827168D 07	1.57861896047677D 06	3.15879064795105D 05	1.01786015742805D 05
6	1	1	1	3	3.30096268826274D 09	1.05061133863686D 08	1.42807515889650D 07	3.55209410256927D 06
6	1	1	3	1	-3.01377802229134D 09	-9.85331570129119D 07	-1.39921535941298D 07	-3.69211066794325D 06

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TABLE 1--Continued

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6	2	0	0	4	2.04619958481920D 10	3.17473784743351D 08	2.75126681135997D 07	4.79458527469042D 06
6	2	0	2	2	2.92951382451845D 10	4.57621910692568D 08	4.01484543216275D 07	7.13486150945620D 06
6	2	0	4	0	-6.79170858447206D 09	-1.03954723957478D 08	-8.78049988849495D 06	-1.46443111455524D 06
6	2	2	0	2	-2.50576104739359D 07	-1.57698608768106D 06	-3.15142989776946D 05	-1.01363610990067D 05
6	2	2	2	0	2.50513468393669D 07	1.57540988227636D 06	3.14434720306994D 05	1.00958990135170D 05
6	3	1	1	1	-1.50382160396596D 06	-1.89422462558172D 05	-5.68503521936780D 04	-2.44227320166270D 04
6	4	0	0	2	-1.25212861289481D 07	-7.86598819214946D 05	-1.56718739605568D 05	-5.01933508547008D 04
6	4	0	2	0	-4.38765615050774D 03	-1.10648985166877D 03	-4.98992724359647D 02	-2.86522464217767D 02
20	TERMS	OF	DEGREE	6				
7	0	1	1	5	-3.30472050994497D 15	-6.50703539154515D 12	-1.71619271742803D 11	-1.31505726907961D 10
7	0	1	3	3	-6.59166363532562D 15	-1.28700314184745D 13	-3.34190372231339D 11	-2.49322473417824D 10
7	0	1	5	1	-3.37140087859337D 14	-4.89118325605485D 11	-5.52414747639417D 09	2.99189701349761D 08
7	0	3	1	3	8.21306240601142D 12	6.43912161717848D 10	3.78937943776025D 09	5.09199173817488D 08
7	0	3	3	1	1.11108629052434D 12	7.20995334408241D 09	2.69166758841093D 08	4.50300367214211D 06
7	0	5	1	1	-2.50793509401764D 09	-7.91238553763330D 07	-1.05875229875823D 07	-2.56986052565089D 06
7	1	0	0	6	6.60944101988994D 13	2.60281415661806D 11	1.02971563045682D 10	1.05204581526368D 09
7	1	0	2	4	-3.74472602503336D 13	-1.56472067367874D 11	-6.85434266634921D 09	-8.19198788913531D 08
7	1	0	4	2	-1.54115528051507D 14	-6.03937407027309D 11	-2.34280883593686D 10	-2.25114959773281D 09
7	1	0	6	0	1.43685465251395D 14	5.56597748999630D 11	2.13433935702886D 10	2.06644361806316D 09
7	1	2	0	4	-1.64261248120228D 11	-2.57564864687139D 09	-2.27362766265615D 08	-4.07359339053990D 07
7	1	2	2	2	5.51481820123509D 11	8.83772216334578D 09	8.09666329585293D 08	1.53109123838376D 08
7	1	2	4	0	-2.28419144016681D 11	-3.65814926742864D 09	-3.34826733130762D 08	-6.32560195454821D 07
7	1	4	0	2	5.01587018803528D 07	3.16495421505332D 06	6.35251379254940D 05	2.05588842052072D 05
7	1	4	2	0	-5.01587018803529D 07	-3.16495421505332D 06	-6.35251379254940D 05	-2.05588842052072D 05
7	2	1	1	3	8.20299242767493D 12	6.40697627373311D 10	3.74546626749548D 09	4.98198829454638D 08
7	2	1	3	1	5.84584152543690D 12	4.53444743075494D 10	2.62036060534554D 09	3.43041348299914D 08
7	2	3	1	1	-5.01419885502605D 09	-1.58037029623198D 08	-2.11117358820499D 07	-5.11247537925920D 06
7	3	0	0	4	-1.64194114931318D 11	-2.57136260107867D 09	-2.26484502860320D 08	-4.04425913890563D 07
7	3	0	2	2	1.26463980090719D 11	2.04484715610460D 09	1.89618652742016D 08	3.62417046318620D 07
7	3	0	4	0	-5.46001298307750D 10	-8.48374688251725D 08	-7.35708886208577D 07	-1.27718829818769D 07
7	3	2	0	2	1.00306261540644D 08	6.32709934838040D 06	1.26923655664758D 06	4.10451132849674D 05
7	3	2	2	0	-5.01723784711172D 07	-3.16842306826657D 06	-6.36830813398299D 05	-2.06508086785149D 05
7	4	1	1	1	-2.50626383117262D 09	-7.89132095770394D 07	-1.05242367274869D 07	-2.54263302828318D 06
7	5	0	0	2	5.01475599409481D 07	3.16214541596847D 06	6.33985463388877D 05	2.04862581592400D 05
7	5	0	2	0	-1.75746338182054D 04	-4.45027834122709D 03	-2.02081813130982D 03	-1.17170308345546D 03
26	TERMS	OF	DEGREE	7				
8	0	0	0	8	-2.60085370440317D 19	-6.27758146050755D 15	-4.74547779148727D 13	-1.46220556359890D 12
8	0	0	2	6	-1.04034148176127D 20	-2.51103258420302D 16	-1.89819111659491D 14	-5.84882225439560D 12

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TABLE 1--Continued

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8	0	0	6	2	1.02140521517011D 20	2.53507856423959D 16	2.00466107456359D 14	6.54792905829270D 12
8	0	0	8	0	3.08029442520548D 19	7.29300564029720D 15	5.33133714684846D 13	1.56393790389208D 12
8	0	2	0	6	1.73451041070990D 17	1.67933789541694D 14	2.87112984759299D 12	1.58606633553187D 11
8	0	2	2	4	-3.90432595785227D 17	-3.98846167283702D 14	-7.43948047099485D 12	-4.62321449797451D 11
8	0	2	4	2	-8.89577985696089D 17	-8.72527577763174D 14	-1.51929787807608D 13	-8.51939273073041D 11
8	0	2	6	0	-1.07559113036739D 17	-9.83879896865519D 13	-1.52211363251225D 12	-7.27576056291000D 10
8	0	4	0	4	-2.35935431023980D 14	-9.18224289767176D 11	-3.55758677019507D 10	-3.51937491902809D 09
8	0	4	2	2	9.67132815358037D 14	3.82489329317119D 12	1.52313795245471D 11	1.56780118852903D 10
8	0	4	4	0	1.90895373501594D 14	7.14574877613848D 11	2.57514156585509D 10	2.25625033469718D 09
8	0	6	0	2	6.27255566747149D 10	9.90765080589158D 08	8.85746045408125D 07	1.61736561341057D 07
8	0	6	2	0	-1.25408265643633D 11	-1.97882579700460D 09	-1.76606160106451D 08	-3.21714510405152D 07
8	1	1	1	5	3.64314287599278D 16	7.22118028727026D 13	1.92634440165286D 12	1.50102616073122D 11
8	1	1	3	3	-2.16663368522167D 16	-4.49445046453809D 13	-1.29697660378972D 12	-1.14009409278758D 11
8	1	1	5	1	-3.10091730423675D 16	-5.97077512164360D 13	-1.49950217835447D 12	-1.03497415961035D 11
8	1	3	1	3	-5.75601470962399D 13	-4.52907349816443D 11	-2.68158636779247D 10	-3.63468187573544D 09
8	1	3	3	1	5.47628714094144D 13	4.38921531086520D 11	2.68022087097131D 10	3.79418533020812D 09
8	1	5	1	1	7.52535289273391D 09	2.37567270207501D 08	3.18216917576717D 07	7.73521714793934D 06
8	2	0	0	6	1.73086726783391D 17	1.66489553484240D 14	2.81333951554340D 12	1.52602528910262D 11
8	2	0	2	4	4.38629746364879D 17	4.26060887629730D 14	7.33096138612373D 12	4.09655985378096D 11
8	2	0	4	2	9.86933235989965D 16	9.04753071132420D 13	1.39982994944453D 12	6.61150557228069D 10
8	2	0	6	0	-9.04411525141540D 16	-8.50678432786005D 13	-1.38202214738666D 12	-7.07536204804318D 10
8	2	2	0	4	-4.71295260576997D 14	-1.82739043253802D 12	-7.03472594935638D 10	-6.89336256302677D 09
8	2	2	2	2	6.98685785749790D 14	2.76297944783554D 12	1.09980074655122D 11	1.13053441745704D 10
8	2	2	4	0	3.27034854700467D 14	1.26163554501618D 12	4.81737023639610D 10	4.67222704984218D 09
8	2	4	0	2	1.88101416495217D 11	2.96754389636332D 09	2.64769162869707D 08	4.82115597163995D 07
8	2	4	2	0	-2.50752788701090D 11	-3.95362966120133D 09	-3.52405113106919D 08	-6.40816878649919D 07
8	3	1	1	3	-5.75423314389265D 13	-4.52337715035993D 11	-2.67378355895873D 10	-3.61506110825542D 09
8	3	1	3	1	3.11277948900638D 13	2.49496158697578D 11	1.52193014832529D 10	2.14577168157170D 09
8	3	3	1	1	1.50497307651504D 10	4.75011604712448D 08	6.36064266517414D 07	1.54545210833719D 07
8	4	0	0	4	-2.35359918631304D 14	-9.09171839118651D 11	-3.47725622129381D 10	-3.37438005934828D 09
8	4	0	2	2	-2.67336973922586D 14	-1.04415861349052D 12	-4.07109733831935D 10	-4.06627242713276D 09
8	4	0	4	0	1.75897436618502D 13	6.74969374595332D 10	2.56725105043286D 09	2.51153975958152D 08
8	4	2	0	2	1.88026167841392D 11	2.96279378031620D 09	2.63815066469931D 08	4.79024692947320D 07
8	4	2	2	0	-1.25322568671613D 11	-1.97341667486423D 09	-1.75519884356727D 08	-3.18196263229544D 07
8	5	1	1	1	7.52437788956852D 09	2.37444343142748D 08	3.17847407222502D 07	7.71930838129237D 06
8	6	0	0	2	6.26503080208320D 10	9.86014964484449D 08	8.76205080827546D 07	1.58645656531601D 07
8	6	0	2	0	2.19555553046684D 07	1.38748380820280D 06	2.79201107685547D 05	9.06862886123303D 04

40 TERMS OF DEGREE 8

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TABLE 1--Continued

					SA= 1.00 SB= 0.10	SA= 1.00 SB= 0.12	SA= 1.00 SB= 0.14	SA= 1.00 SB= 0.16
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2	2	0	0	0	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01
2 TERMS OF DEGREE 2								
3	0	1	1	1	-2.08333333333333D 01	-1.76853423882286D 01	-1.55009920634921D 01	-1.39260249554367D 01
3	1	0	0	2	2.08333333333333D 00	2.12224108658744D 00	2.17013888888889D 00	2.22816399286987D 00
3	1	0	2	0	-1.02083333333333D 02	-7.15666855310319D 01	-5.31905470521542D 01	-4.12906639928699D 01
3 TERMS OF DEGREE 3								
4	0	0	0	4	-1.95312500000000D 03	-9.59491232000251D 02	-5.29598398670693D 02	-3.18741415911180D 02
4	0	0	2	2	-3.90625000000000D 03	-1.91898246400050D 03	-1.05919679734139D 03	-6.37482831822360D 02
4	0	0	4	0	3.25520833333333D 03	1.59915205333375D 03	8.82663997784488D 02	5.31235693185300D 02
4	0	2	0	2	1.05744949494949D 02	7.53038625094015D 01	5.70208289098993D 01	4.52338556896112D 01
4	0	2	2	0	-2.09911616161616D 02	-1.48992789127021D 02	-1.12381514850942D 02	-8.87526836753510D 01
4	1	1	1	1	6.31313131313130D 01	5.38311963927414D 01	4.74326562530356D 01	4.28756925967879D 01
4	2	0	0	2	1.02588383838384D 02	7.20739907258371D 01	5.37005429721868D 01	4.18038002818682D 01
4	2	0	2	0	1.57828282828303D 00	1.61493589178222D 00	1.66014296885630D 00	1.71502770387153D 00
8 TERMS OF DEGREE 4								
5	0	1	1	3	-1.69515091390091D 05	-7.27659383557485D 04	-3.68544246788986D 04	-2.14422461055066D 04
5	0	1	3	1	-1.31936928811929D 05	-4.84787922585961D 04	-1.92259756528370D 04	-7.25837295118727D 03
5	0	3	1	1	4.25924986471860D 03	2.53579513880198D 03	1.65238103962071D 03	1.15248499581139D 03
5	1	0	0	4	1.69515091390091D 04	8.73191260268982D 03	5.15961945504580D 03	3.43075937688105D 03
5	1	0	2	2	-3.24224386724386D 04	-1.92022423879473D 04	-1.32224005205274D 04	-1.03421540898242D 04
5	1	0	4	0	2.87886303511303D 04	1.48759878632769D 04	8.77586492400509D 03	5.77246373994683D 03
5	1	2	0	2	-4.25924986471860D 02	-3.04295416656237D 02	-2.31333345546899D 02	-1.84397599329823D 02
5	1	2	2	0	4.25924986471860D 02	3.04295416656237D 02	2.31333345546899D 02	1.84397599329823D 02
5	2	1	1	1	4.18879080988455D 03	2.47559743304878D 03	1.59921495253651D 03	1.10429706581141D 03
5	3	0	0	2	-4.23576351310725D 02	-3.01887508426109D 02	-2.28852261482970D 02	-1.81827576396490D 02
5	3	0	2	0	2.70093043530505D 00	2.82530624421301D 00	2.98246980184804D 00	3.17885724320762D 00
11 TERMS OF DEGREE 5								
6	0	0	0	6	-1.39348438502084D 07	-3.21577036745258D 06	-9.24545891717458D 05	-3.10416791732693D 05
6	0	0	2	4	-4.18045315506253D 07	-9.64731110235775D 06	-2.77363767515237D 06	-9.31250375198080D 05
6	0	0	4	2	5.74241296897536D 05	8.80168405129007D 05	5.84090520811420D 05	3.77480466202469D 05
6	0	0	6	0	2.21809019009540D 07	4.96919890689833D 06	1.36245532258565D 06	4.21170773531815D 05
6	0	2	0	4	1.27792429198519D 06	4.18854445403880D 05	1.60004317770366D 05	6.70914769935681D 04
6	0	2	2	2	-3.65797430921943D 06	-1.43673082086870D 06	-6.96824927573225D 05	-4.02988357894636D 05
6	0	2	4	0	-1.55166212370642D 06	-4.38086673955188D 05	-1.24082245384012D 05	-2.00504485062507D 04
6	0	4	0	2	-2.15288988983349D 04	-1.07326575589183D 04	-6.02878173137129D 03	-3.70363404370607D 03
6	0	4	2	0	4.26930374941140D 04	2.12044117220205D 04	1.18589380062432D 04	7.24867942514795D 03
6	1	1	1	3	1.24276457863796D 06	5.45865530802350D 05	2.84713397671908D 05	1.71894819802167D 05
6	1	1	3	1	-1.38870497177690D 06	-6.62824447427077D 05	-3.78540387553524D 05	-2.51180822928931D 05

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1966ApJS...13..503C

TABLE 1--Continued

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6	1	3	1	1	-1.28443872784898D 04	-7.66489662742531D 03	-5.00856152653205D 03	-3.50474031003329D C3
6	2	0	0	4	1.21578606305329D 06	3.86102513555739D 05	1.40074379933332D 05	5.33398914093948D C4
6	2	0	2	2	1.86479136369273D 06	6.21113460262991D 05	2.43998760726376D 05	1.07794942062897D 05
6	2	0	4	0	-3.44320582823161D 05	-9.49978314691950D 04	-2.50543967040705D 04	-1.98311461946595D 03
6	2	2	0	2	-4.24155784327452D 04	-2.10054213201911D 04	-1.17069641558853D 04	-7.12688886260948D C3
6	2	2	2	0	4.21513569771175D 04	2.08173034897123D 04	1.15645549940527D 04	7.01394840167201D 03
6	3	1	1	1	-1.28031831528558D 04	-7.62965442714828D 03	-4.97739526103199D 03	-3.47644962380812D 03
6	4	0	0	2	-2.08877096375512D 04	-1.02738210272811D 04	-5.67927324380655D 03	-3.42438644635242D 03
6	4	0	2	0	-1.88355139685364D 02	-1.35227192328191D 02	-1.03413310454474D 02	-8.30121147769692D C1
20	TERMS	OF	DEGREE	6				
7	0	1	1	5	-1.81748252916246D 09	-3.69705022109637D 08	-1.04627138964836D 08	-7.07758486947307D 07
7	0	1	3	3	-3.27688182013255D 09	-5.90438270561079D 08	-1.02060157053332D 08	1.09554132581887D 08
7	0	1	5	1	1.43562555216854D 08	3.92944099942442D 07	1.50972279703488D 05	-4.36537590016506D C7
7	0	3	1	3	1.07454367171752D 08	3.00598565606359D 07	1.01204320419259D 07	3.80377261566460D C6
7	0	3	3	1	-8.69600573132516D 06	-6.29955176757160D 06	-4.04050649343233D 06	-2.67540107800675D 06
7	0	5	1	1	-8.67213796707305D 05	-3.61467066408011D 05	-1.74753949110854D 05	-9.44078547157627D 04
7	1	0	0	6	1.81748252916246D 08	4.43646026531565D 07	1.46477994550771D 07	1.13241357911569D 07
7	1	0	2	4	-1.81261576938503D 08	-6.74394643921107D 07	-4.67007025140434D 07	-1.14448184235213D 08
7	1	0	4	2	-3.23250961804306D 08	-3.65884760556600D 07	2.81336378880554D 07	1.18992456301145D 08
7	1	0	6	0	3.24688680262969D 08	6.55607005819743D 07	1.26825897297719D 07	-5.41816015071328D 06
7	1	2	0	4	-1.07454367171752D 07	-3.60718278727631D 06	-1.41686048586962D 06	-6.08603618506335D 05
7	1	2	2	2	4.34566714302572D 07	1.60706807645209D 07	7.17795780349765D 06	3.68869619229132D 06
7	1	2	4	0	-1.79468155707781D 07	-6.64606057933650D 06	-2.98586233892608D 06	-1.56067033266045D 06
7	1	4	0	2	8.67213796707305D 04	4.33760479689614D 04	2.44655528755195D 04	1.51052567545220D 04
7	1	4	2	0	-8.67213796707305D 04	-4.33760479689614D 04	-2.44655528755195D 04	-1.51052567545220D 04
7	2	1	1	3	1.03569824591760D 08	2.83337644334691D 07	9.20746109805948D 06	3.24342744996905D 06
7	2	1	3	1	6.99771659363555D 07	1.88181489925943D 07	6.11814590980683D 06	2.31921463143178D 06
7	2	3	1	1	-1.72011223786742D 06	-7.14379788525506D 05	-3.43909064666685D 05	-1.84890529081634D 05
7	3	0	0	4	-1.06159519645088D 07	-3.53813910218964D 06	-1.37425517515586D 06	-5.78718543002573D C5
7	3	0	2	2	1.03027938084692D 07	3.73037539181453D 06	1.54867113595531D 06	6.43915662430212D 05
7	3	0	4	0	-3.18402883593541D 06	-9.59387102375343D 05	-2.95840353444066D 05	-5.28235855202672D 04
7	3	2	0	2	1.72965580823221D 05	8.64099221663021D 04	4.86698268518047D 04	3.00011705570498D 04
7	3	2	2	0	-8.73363322999561D 04	-4.38271631250504D 04	-2.48195338683187D 04	-1.53980859319112D 04
7	4	1	1	1	-8.52913298416954D 05	-3.52925438608389D 05	-1.69166370707567D 05	-9.04929009007992D 04
7	5	0	0	2	8.62444982976276D 04	4.30341793931222D 04	2.42045891205337D 04	1.48962410516455D 04
7	5	0	2	0	-7.80066276898276D 02	-5.68894352793873D 02	-4.43342609905094D 02	-3.63883142069745D 02
26	TERMS	OF	DEGREE	7				
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8	0	0	2	6	-3.87800333904140D 11	-4.16973036366910D 10	-6.28038717666075D 09	-1.18408341658429D 09

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TABLE 1--Continued

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8	0	0	6	2	4.61260390978360D 11	5.09091096224444D 10	6.27350592453996D 09	-2.76197582735725D 09
8	0	0	8	0	9.73697783424833D 10	9.88479983079597D 09	1.56149909958873D 09	6.41713043943481D 08
8	0	2	0	6	1.66545516034353D 10	2.63478706167783D 09	5.57082229045523D 08	1.26273455828268D 08
8	0	2	2	4	-5.62431066865469D 10	-1.07464784701726D 10	-3.16946413938645D 09	-3.12340386431664D 09
8	0	2	4	2	-8.81778788258741D 10	-1.20690232650814D 10	-5.83528612247079D 08	5.27893115849429D 09
8	0	2	6	0	-6.54082826248482D 09	-1.06870719789551D 09	-4.45089785958588D 08	-7.28007670942376D 08
8	0	4	0	4	-5.79159466310263D 08	-1.30621793077855D 08	-3.62637625774000D 07	-1.15673812424581D 07
8	0	4	2	2	2.72025631688081D 09	6.55523282910088D 08	1.96210769210537D 08	6.65257563710200D 07
8	0	4	4	0	3.02257935254788D 08	4.62139734658389D 07	4.35446610158558D 06	-2.17068672529921D 06
8	0	6	0	2	4.38348673643497D 06	1.52993121180613D 06	6.37624731669255D 05	3.03412373695053D 05
8	0	6	2	0	-8.69272990462972D 06	-3.02268886417282D 06	-1.25425591506568D 06	-5.93843756859626D 05
8	1	1	1	5	2.12413522993705D 10	4.47620151724946D 09	1.35539903142644D 09	1.12071175417646D 09
8	1	1	3	3	-1.94624012957948D 10	-5.62764861524292D 09	-2.99716961590099D 09	-5.82324901799719D 09
8	1	1	5	1	-1.11022770882864D 10	-8.14689782890683D 08	8.28932280219756D 08	2.70166889865177D 09
8	1	3	1	3	-7.75715049900266D 08	-2.20024048575792D 08	-7.52467224222943D 07	-2.86913660338996D 07
8	1	3	3	1	8.56754987627898D 08	2.60652278693156D 08	9.70806034209537D 07	4.11165156670903D 07
8	1	5	1	1	2.61524332821294D 06	1.09262881823495D 06	5.29726581085781D 05	2.87121961777497D 05
8	2	0	0	6	1.55924839884667D 10	2.36621497064286D 09	4.62204296845673D 08	3.66165154941507D 07
8	2	0	2	4	4.39352617125054D 10	7.26423346165281D 09	1.74330347570991D 09	9.57979452231502D 08
8	2	0	4	2	5.63911771277889D 09	8.07344185532875D 08	3.17720498852203D 08	6.02454153792495D 08
8	2	0	6	0	-6.73688611198986D 09	-9.83510016811511D 08	-2.35802984518328D 08	-1.78074480420370D 08
8	2	2	0	4	-1.11953318012551D 09	-2.48042143241163D 08	-6.72602545852395D 07	-2.08394532022043D 07
8	2	2	2	2	1.95466683704567D 09	4.67003961789067D 08	1.36869914108283D 08	4.37967864061443D 07
8	2	2	4	0	7.51657953138369D 08	1.66587799489831D 08	4.68618200973096D 07	1.68493027242580D 07
8	2	4	0	2	1.30196980428942D 07	4.52423590632430D 06	1.87579333433176D 06	8.87267364142960D 05
8	2	4	2	0	-1.72752895804055D 07	-5.99028331002426D 06	-2.47744439087208D 06	-1.16851242166316D 06
8	3	1	1	3	-7.68752283928706D 08	-2.16911490942474D 08	-7.35886764831765D 07	-2.76653796252530D 07
8	3	1	3	1	4.79433987729139D 08	1.42405135648614D 08	5.02924669461163D 07	1.86768063257276D 07
8	3	3	1	1	5.22211965963180D 06	2.18025347915545D 06	1.05617455734752D 06	5.71942640494132D 05
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8	4	0	2	2	-6.78476199769073D 08	-1.56008915436691D 08	-4.44655091293217D 07	-1.46557618169478D 07
8	4	0	4	0	4.22958131956327D 07	1.06788761759617D 07	3.97377665950771D 06	2.22492175779143D 06
8	4	2	0	2	1.28891450514035D 07	4.45882830194964D 06	1.83882722482460D 06	8.64389658523195D 05
8	4	2	2	0	-8.54417539957756D 06	-2.94829325345999D 06	-1.21223162184104D 06	-5.67851812663291D 05
8	5	1	1	1	2.60687996723255D 06	1.08762777437759D 06	5.26450733525762D 05	2.84823185667165D 05
8	6	0	0	2	4.25293368434728D 06	1.46452354516233D 06	6.00658557825931D 05	2.80534601223274D 05
8	6	0	2	0	3.84338609845329D 04	1.93365782464150D 04	1.09837162818430D 04	6.83822427335894D 03

40 TERMS OF DEGREE 8

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1966ApJS...13..503C

TABLE 1--Continued

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2	2	0	0	0	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01
2 TERMS OF DEGREE 2								
3	0	1	1	1	-1.27655228758170D 01	-1.19047619047619D 01	-1.12734487734488D 01	-1.08281358281358D 01
3	1	0	0	2	2.29779411764706D 00	2.38095238095238D 00	2.48015873015873D 00	2.59875259875260D 00
3	1	0	2	0	-3.31619916485113D 01	-2.73809523809524D 01	-2.31413157549521D 01	-1.99598637098637D 01
3 TERMS OF DEGREE 3								
4	0	0	0	4	-2.05207093554157D 02	-1.39508928571429D 02	-9.92567451644273D 01	-7.34329957962770D 01
4	0	0	2	2	-4.10414187108314D 02	-2.79017857142857D 02	-1.98513490328855D 02	-1.46865991592554D 02
4	0	0	4	0	3.42011822590262D 02	2.32514880952381D 02	1.65427908607379D 02	1.22388326327128D 02
4	0	2	0	2	3.72408374282452D 01	3.16220238095238D 01	2.75762023619699D 01	2.46268086357220D 01
4	0	2	2	0	-7.27006231944035D 01	-6.13839285714285D 01	-5.31976768470807D 01	-4.71854249443383D 01
4	1	1	1	1	3.95789258241535D 01	3.72023809523809D 01	3.55405068519823D 01	3.44698721184290D 01
4	2	0	0	2	3.36787341040714D 01	2.79017857142857D 01	2.36667466082518D 01	2.04904239815105D 01
4	2	0	2	0	1.78105166208692D 00	1.86011904761905D 00	1.95472787685901D 00	2.06819232710575D 00
8 TERMS OF DEGREE 4								
5	0	1	1	3	-1.42616659957035D 04	-1.10869003779290D 04	-1.09583989528826D 04	-2.08526707682841D 04
5	0	1	3	1	-1.57923467618421D 03	1.83059334845049D 03	5.31615762534328D 03	1.73128445272411D 04
5	0	3	1	1	8.48272020352448D 02	6.52704992253311D 02	5.21664583616580D 02	4.31178044137555D 02
5	1	0	0	4	2.56709987922663D 03	2.21738000755858D 03	2.41084776963416D 03	5.00464098438819D 03
5	1	0	2	2	-9.14733003774073D 03	-9.33159722222222D 03	-1.18807198359253D 04	-2.83342685348519D 04
5	1	0	4	0	4.20343054806484D 03	3.43531509826152D 03	3.36780578695902D 03	5.79346549710518D 03
5	1	2	0	2	-1.52688963663441D 02	-1.30540998450662D 02	-1.14766208395648D 02	-1.03482730593013D 02
5	1	2	2	0	1.52688963663441D 02	1.30540998450662D 02	1.14766208395648D 02	1.03482730593013D 02
5	2	1	1	1	8.03652921073776D 02	6.10620850904464D 02	4.81306994985605D 02	3.91871950224002D 02
5	3	0	0	2	-1.50011817706720D 02	-1.27735389027406D 02	-1.11806651896043D 02	-1.00338243079929D 02
5	3	0	2	0	3.42320354318869D 00	3.72745251946931D 00	4.10814628397534D 00	4.58859830651511D 00
11 TERMS OF DEGREE 5								
6	0	0	0	6	-1.15995865775990D 05	-4.58263455845301D 04	-1.68779814722775D 04	2.37625654287015D 03
6	0	0	2	4	-3.47987597327969D 05	-1.37479036753590D 05	-5.06339444168325D 04	7.12876962861051D 03
6	0	0	4	2	2.63366397686754D 05	2.08986589427437D 05	2.06653784567074D 05	3.84238701057360D 05
6	0	0	6	0	1.32920105704233D 05	3.15248350497606D 04	-1.43259865577708D 04	-8.06497506800642D 04
6	0	2	0	4	2.88841866613263D 04	1.08775937118748D 04	-1.65018630679917D 02	-1.94003499895595D 04
6	0	2	2	2	-2.74759965770865D 05	-2.24330141712133D 05	-2.36709581112032D 05	-4.83759768825878D 05
6	0	2	4	0	2.02708408410378D 04	4.18461951225691D 04	6.70353374745506D 04	1.73877826657315D 05
6	0	4	0	2	-2.44140364785450D 03	-1.70504283282207D 03	-1.25056594763368D 03	-9.57426287884492D 02
6	0	4	2	0	4.75123658708490D 03	3.29735143094080D 03	2.40177160190633D 03	1.82500599396777D 03
6	1	1	1	3	1.19710202073666D 05	9.84341316543532D 04	1.04006992294296D 05	2.13580353046444D 05
6	1	1	3	1	-1.92052298671248D 05	-1.72161887201907D 05	-1.95477894296025D 05	-4.21584592426275D 05

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TABLE 1--Continued

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6	2	0	0	4	1.811026847469 63D 04	1.034180546439 54D 03	-1.160578855305 24D 04	-4.502999235513 28D 04
6	2	0	2	2	5.182296502727 77D 04	2.641568947290 45D 04	1.392434941942 98D 04	7.354571331758 59D 03
6	2	0	4	0	7.047037604135 31D 03	1.221351469885 94D 04	1.899721360671 58D 04	4.935424818541 73D 04
6	2	2	0	2	-4.649765752096 96D 03	-3.209989895093 62D 03	-2.324358757869 63D 03	-1.754584476334 29D 03
6	2	2	2	0	4.556809295266 39D 03	3.131082130065 53D 03	2.255567413612 28D 03	1.693168704594 37D 03
6	3	1	1	1	-2.563110129791 86D 03	-1.976160652521 82D 03	-1.583198248792 84D 03	-1.312303945387 60D 03
6	4	0	0	2	-2.209542920207 85D 03	-1.506186914920 72D 03	-1.075103475251 21D 03	-7.985540014438 91D 02
6	4	0	2	0	-6.930453341236 86D 01	-5.981909485498 37D 01	-5.317173093565 74D 01	-4.855378072607 64D 01
20	TERMS	OF	DEGREE	6				
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7	0	1	3	3	-7.690165009615 48D 07	-2.804182489087 45D 07	-1.816722096031 59D 07	-2.586572453893 98D 07
7	0	1	5	1	1.540191217810 41D 07	-1.087922109127 36D 06	-1.314707661036 28D 07	-1.113846727916 05D 08
7	0	3	1	3	1.422312483275 69D 06	2.707704571561 49D 05	-8.856949242317 00D 05	-9.640976347524 64D 06
7	0	3	3	1	-1.875462939228 09D 06	-1.363073638450 92D 06	-7.772415919002 40D 05	5.653405932736 27D 06
7	0	5	1	1	-5.565363552643 81D 04	-3.523594662795 19D 04	-2.369970474845 88D 04	-1.680656817027 82D 04
7	1	0	0	6	-2.457340955580 29D 06	-2.090502980278 10D 06	-4.249963251631 43D 06	-2.871840732947 07D 07
7	1	0	2	4	5.203062134455 80D 07	2.673373015032 15D 07	3.324700104364 66D 07	1.628889815789 16D 08
7	1	0	4	2	-3.842812029796 63D 07	-4.520665739790 69D 06	1.225280608684 82D 07	1.318354998772 33D 08
7	1	0	6	0	1.521057720389 73D 06	-2.309894177953 93D 06	-5.662412121823 24D 06	-3.276974600669 76D 07
7	1	2	0	4	-2.560162469896 24D 05	-5.415409143122 97D 04	1.948528833309 74D 05	2.313834323405 91D 06
7	1	2	2	2	2.082206585911 86D 06	1.150810740646 45D 06	3.177335831691 27D 04	-1.094546730512 92D 07
7	1	2	4	0	-9.241557472196 86D 05	-6.023498707842 64D 05	-3.694866710367 57D 05	1.230080896497 83D 06
7	1	4	0	2	1.001765439475 88D 04	7.047189325590 38D 03	5.213935044660 93D 03	4.033576360866 76D 03
7	1	4	2	0	-1.001765439475 89D 04	-7.047189325590 38D 03	-5.213935044660 93D 03	-4.033576360866 76D 03
7	2	1	1	3	1.024634875837 00D 06	-6.321997320505 56D 04	-1.246796917772 01D 06	-1.040057272632 84D 07
7	2	1	3	1	1.067064691435 24D 06	7.448289698443 84D 05	1.205411772020 46D 06	9.328869725959 90D 06
7	2	3	1	1	-1.084010260355 99D 05	-6.822056251142 29D 04	-4.558634910937 18D 04	-3.210175137344 20D 04
7	3	0	0	4	-2.321555905433 03D 05	-3.188806274048 28D 04	2.213336961905 97D 05	2.374602033710 22D 06
7	3	0	2	2	1.460611931894 66D 05	-3.252441131375 58D 05	-1.431805887426 89D 06	-1.379157297665 74D 07
7	3	0	4	0	6.546335176678 13D 04	1.697769393053 96D 05	4.033612496910 62D 05	2.717834961363 67D 06
7	3	2	0	2	1.986093408848 10D 04	1.394428993488 20D 04	1.029491232756 85D 04	7.946241924364 38D 03
7	3	2	2	0	-1.027074710856 19D 04	-7.274430916531 55D 03	-5.425128928181 82D 03	-4.236332215228 03D 03
7	4	1	1	1	-5.275688626287 09D 04	-3.299360032295 77D 04	-2.189529021267 07D 04	-1.530363598193 75D 04
7	5	0	0	2	9.843621540855 77D 03	6.897459986871 13D 03	5.081357700384 91D 03	3.913071296878 75D 03
7	5	0	2	0	-3.117464604617 42D 02	-2.771950744872 91D 02	-2.549020700977 92D 02	-2.419341709115 52D 02
26	TERMS	OF	DEGREE	7				
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8	0	0	2	6	-3.607524800663 82D 08	-1.454262048592 06D 08	-1.185454816870 74D 08	-4.128183683588 07D 08

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TABLE 1--Continued

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8	0	0	6	2	1.44679655681309D 09	2.21017753255044D 08	-1.36558157304200D 08	-1.54363320729256D 09
8	0	0	8	0	3.15827087740875D 07	7.22532212688760D 07	1.20197855141958D 08	6.21259240056970D 08
8	0	2	0	6	7.70277383001412D 07	4.39008981116946D 07	4.85140272784929D 07	2.03888410352615D 08
8	0	2	2	4	1.06279038529410D 09	6.74233869123547D 08	1.03735561113324D 09	5.93586037100173D 09
8	0	2	4	2	-2.31690594768208D 09	-7.59142137709512D 08	-5.13173823916689D 08	-1.26797079714708D 09
8	0	2	6	0	1.17705702230218D 08	-5.03582315119207D 07	-1.67447783400701D 08	-1.15686584052258D 09
8	0	4	0	4	-4.06465238076264D 06	-1.65851921577018D 06	-1.44251323122633D 06	-1.12544786841722D 07
8	0	4	2	2	2.15706665064207D 07	2.39650380685297D 05	-2.41306157466712D 07	-2.31683151854117D 08
8	0	4	4	0	-1.88338868059648D 06	4.25201305078485D 05	7.03604612470711D 06	8.24184330328911D 07
8	0	6	0	2	1.60195527693164D 05	9.20629932372465D 04	5.68300349913755D 04	3.73335711305459D 04
8	0	6	2	0	-3.11767116379225D 05	-1.78046916629741D 05	-1.09151872087387D 05	-7.11701540538545D 04
8	1	1	1	5	-2.99414581341725D 08	-2.17012469915385D 08	-3.92397952891016D 08	-2.55561366717307D 09
8	1	1	3	3	2.30168575943955D 09	1.12639302117974D 09	1.41936434856078D 09	7.41781210618978D 09
8	1	1	5	1	-7.87554323719731D 08	-1.40996454385681D 08	4.34107232949362D 07	7.62812602058566D 08
8	1	3	1	3	-1.06919896564605D 07	-1.42267552489027D 06	9.34805928505616D 06	1.00403613353171D 08
8	1	3	3	1	1.77100037933344D 07	4.16019243670531D 06	-1.43608749120318D 07	-1.88870705114548D 08
8	1	5	1	1	1.69906551866060D 05	1.08043963946795D 05	7.30320391146558D 04	5.20817880885122D 04
8	2	0	0	6	1.03975050620896D 08	6.56021451032331D 07	9.16778020965046D 07	5.10562050413383D 08
8	2	0	2	4	-6.47188786087155D 07	-3.21492924370488D 07	-8.99251744589008D 07	-8.01008225217213D 08
8	2	0	4	2	-1.23622814057927D 08	4.11311006842057D 07	1.78418870227798D 08	1.45810103063022D 09
8	2	0	6	0	-1.02170401403311D 07	-4.39595196352454D 07	-9.52791425713867D 07	-6.22581096096950D 08
8	2	2	0	4	-7.16702569244384D 06	-3.17477087905134D 06	-3.91331298380883D 06	-3.45573909707248D 07
8	2	2	2	2	1.11492129987303D 07	-5.60947595072982D 06	-2.85750770119480D 07	-2.38855399450549D 08
8	2	2	4	0	8.86473525954584D 06	8.43414951236163D 06	1.62407641972596D 07	1.18756578133721D 08
8	2	4	0	2	4.65294993411548D 05	2.65384583317060D 05	1.62456580671514D 05	1.05750898821016D 05
8	2	4	2	0	-6.10822895433964D 05	-3.47156620354785D 05	-2.11696161284738D 05	-1.37233280214783D 05
8	3	1	1	3	-9.95714809375952D 06	-7.99296413456920D 05	1.00293123069401D 07	1.01852841894561D 08
8	3	1	3	1	4.84233108276614D 06	-4.80340176821252D 06	-2.25665427958259D 07	-2.03724200261809D 08
8	3	3	1	1	3.38106885736311D 05	2.14764171563635D 05	1.44996194346732D 05	1.03271691232877D 05
8	4	0	0	4	-3.13544118200274D 06	-1.54742061885282D 06	-2.50826866878612D 06	-2.33898659990360D 07
8	4	0	2	2	-5.26844305120133D 06	-1.90427599729968D 06	-5.14686738377570D 05	5.10769607942568D 05
8	4	0	4	0	1.84470312495139D 06	2.20576262961587D 06	4.19569475605444D 06	2.77564655058817D 07
8	4	2	0	2	4.50080183553414D 05	2.54646374738878D 05	1.54481789982444D 05	9.95545973470435D 04
8	4	2	2	0	-2.94494124365834D 05	-1.65867005498046D 05	-1.00116031710732D 05	-6.41583300461395D 04
8	5	1	1	1	1.68202663440946D 05	1.06722413617607D 05	7.19662800895166D 04	5.11919826882573D 04
8	6	0	0	2	1.44980647947910D 05	8.13247111257059D 04	4.88551663908658D 04	3.11371864748175D 04
8	6	0	2	0	4.57930930511873D 03	3.25774582616766D 03	2.44143517344849D 03	1.91661926706367D 03

40 TERMS OF DEGREE 8

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TABLE 1--Continued

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2	2	0	0	0	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01
2 TERMS OF DEGREE 2								
3	0	1	1	1	-1.05431848852901D 01	-1.04062604062604D 01	-1.04166666666667D 01	-1.05860433604336D 01
3	1	0	0	2	2.74122807017544D 00	2.91375291375291D 00	3.12500000000000D 00	3.38753387533875D 00
3	1	0	2	0	-1.75341274784595D 01	-1.56688549545692D 01	-1.42361111111111D 01	-1.31531588753387D 01
3 TERMS OF DEGREE 3								
4	0	0	0	4	-5.62371178309030D 01	-4.44418236646735D 01	-3.61689814814815D 01	-3.02869129956253D 01
4	0	0	2	2	-1.12474235661806D 02	-8.88836473293470D 01	-7.23379629629629D 01	-6.05738259912506D 01
4	0	0	4	0	9.37285297181717D 01	7.40697061077892D 01	6.02816358024691D 01	5.04781883260422D 01
4	0	2	0	2	2.24803330825598D 01	2.09538260598528D 01	1.99366605616606D 01	1.93711856277988D 01
4	0	2	2	0	-4.27556886311947D 01	-3.95364339281750D 01	-3.72977716727717D 01	-3.59118783784763D 01
4	1	1	1	1	3.39227312911524D 01	3.38745455932956D 01	3.43406593406593D 01	3.53811609640160D 01
4	2	0	0	2	1.80703780147100D 01	1.62113896767914D 01	1.47855616605617D 01	1.37101998735562D 01
4	2	0	2	0	2.20497753392488D 00	2.37121819153069D 00	2.57554945054944D 00	2.83049287712128D 00
8 TERMS OF DEGREE 4								
5	0	1	1	3	1.42480376259928D 04	3.53370199275537D 03	1.73606293397960D 03	1.12353640972898D 03
5	0	1	3	1	-1.65004643129941D 04	-4.95830440718116D 03	-2.59987890196223D 03	-1.58259728418721D 03
5	0	3	1	1	3.67506045343120D 02	3.22473676185696D 02	2.91140427859178D 02	2.70606535572906D 02
5	1	0	0	4	-3.70448978275814D 03	-9.89436557971504D 02	-5.20818880193880D 02	-3.59531651113274D 02
5	1	0	2	2	2.33187329004997D 04	6.59874899686880D 03	3.45931075097742D 03	2.21954487686660D 03
5	1	0	4	0	-3.02515951927210D 03	-3.79742735842995D 02	4.88756999173670D 01	1.94972743639708D 02
5	1	2	0	2	-9.55515717892111D 01	-9.02926293319948D 01	-8.73421283577534D 01	-8.65940913833298D 01
5	1	2	2	0	9.55515717892111D 01	9.02926293319948D 01	8.73421283577533D 01	8.65940913833298D 01
5	2	1	1	1	3.28646611587676D 02	2.83476455710820D 02	2.51394294363044D 02	2.29419674700285D 02
5	3	0	0	2	-9.21837541970726D 01	-8.66528887543398D 01	-8.33675150081400D 01	-8.22008262235836D 01
5	3	0	2	0	5.20239191206655D 00	5.99920877030271D 00	7.05493869556371D 00	8.49007421521688D 00
11 TERMS OF DEGREE 5								
6	0	0	0	6	-1.51189661215335D 04	-5.05682571865334D 03	-2.33608903313764D 03	-1.08682021523162D 03
6	0	0	2	4	-4.53568983646004D 04	-1.51704771559600D 04	-7.00826709941293D 03	-3.26046064569486D 03
6	0	0	4	2	-2.48020155448022D 05	-5.54139856375946D 04	-2.30829238955203D 04	-1.18323631857414D 04
6	0	0	6	0	7.37943768840578D 04	1.91737182773643D 04	8.35432723212429D 03	4.10538498151887D 03
6	0	2	0	4	2.39496117936975D 04	7.58177835044605D 03	3.85250335067736D 03	2.11783255991656D 03
6	0	2	2	2	3.52503858369909D 05	9.12613437054067D 04	4.52694753876123D 04	2.84812350537907D 04
6	0	2	4	0	-1.45311326103101D 05	-4.01622619015971D 04	-2.00585323955645D 04	-1.20469783862993D 04
6	0	4	0	2	-7.61946201383039D 02	-6.28664034544510D 02	-5.37059049371661D 02	-4.75052701393631D 02
6	0	4	2	0	1.44066496616155D 03	1.17839567473668D 03	9.97451762368541D 02	8.73742486933745D 02
6	1	1	1	3	-1.58394410086907D 05	-4.26147607225282D 04	-2.25386812117545D 04	-1.55171647577329D 04
6	1	1	3	1	3.18116345617487D 05	8.37485318691393D 04	4.15272431786056D 04	2.57201969220267D 04

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TABLE 1--Continued

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6	2	0	0	4	4.454088510499 54D 04	1.354784485160 00D 04	7.233305532440 55D 03	4.600578921153 82D 03
6	2	0	2	2	3.677714288905 17D 03	1.479359738047 76D 03	4.964816501817 30D 01	-1.000206970037 74D 03
6	2	0	4	0	-4.190636168186 29D 04	-1.188092911493 38D 04	-6.133651005096 85D 03	-3.831775789355 36D 03
6	2	2	0	2	-1.374995887840 06D 03	-1.115654587881 38D 03	-9.360121256867 05D 02	-8.119887755025 38D 02
6	2	2	2	0	1.318948627615 87D 03	1.063426167602 52D 03	8.863294588165 38D 02	7.637229229174 36D 02
6	3	1	1	1	-1.122300129344 72D 03	-9.887502766402 02D 02	-8.969875667991 99D 02	-8.385720354285 74D 02
6	4	0	0	2	-6.145484355126 25D 02	-4.886147745758 73D 02	-4.007319953334 12D 02	-3.389086249169 83D 02
6	4	0	2	0	-4.548790919115 82D 01	-4.370739219001 69D 01	-4.309982870674 49D 01	-4.369254309476 31D 01
20	TERMS	OF	DEGREE	6				
7	0	1	1	5	8.449927444555 00D 07	6.910162249560 25D 06	1.928437724328 07D 06	8.083408465516 77D 05
7	0	1	3	3	1.437102266351 46D 07	3.046158704864 03D 06	1.303152455623 11D 06	7.304950054825 00D 05
7	0	1	5	1	-8.812615785927 02D 07	-7.345333828728 70D 06	-1.945166976006 69D 06	-7.240448849233 42D 05
7	0	3	1	3	-8.346584084999 93D 06	-7.755558324303 65D 05	-2.530091894692 27D 05	-1.352103388733 74D 05
7	0	3	3	1	1.138795956121 75D 07	1.530777830306 76D 06	5.821909482165 26D 05	2.973180861093 07D 05
7	0	5	1	1	-1.250170126749 43D 04	-9.723652656543 45D 03	-7.896230893063 26D 03	-6.696508359038 35D 03
7	1	0	0	6	-2.196981135584 30D 07	-1.934845429876 87D 06	-5.785313172984 21D 05	-2.586690708965 37D 05
7	1	0	2	4	9.793109070541 04D 07	6.922041124276 98D 06	1.634208190860 70D 06	5.507062320336 14D 05
7	1	0	4	2	1.153442946587 96D 08	1.051414516961 70D 07	3.084599332123 90D 06	1.303472898996 20D 06
7	1	0	6	0	-1.861364938355 52D 07	-1.032145974554 32D 06	-1.378049284561 29D 05	3.598183431939 61D 03
7	1	2	0	4	2.170111862099 98D 06	2.171556330805 02D 05	7.590275684076 81D 04	4.326730843947 98D 04
7	1	2	2	2	-1.534785847000 33D 07	-1.905245581059 16D 06	-7.278108328339 93D 05	-3.966705418351 86D 05
7	1	2	4	0	2.875623038214 69D 06	3.684955641830 01D 05	1.303260950263 56D 05	6.101122165912 89D 04
7	1	4	0	2	3.250442329548 51D 03	2.722622743832 17D 03	2.368869267918 98D 03	2.142882674892 27D 03
7	1	4	2	0	-3.250442329548 51D 03	-2.722622743832 17D 03	-2.368869267918 98D 03	-2.142882674892 27D 03
7	2	1	1	3	-7.769430323063 93D 06	-6.165689507159 87D 05	-1.669955915915 47D 05	-7.466276452049 22D 04
7	2	1	3	1	8.910018762687 71D 06	9.238350800962 07D 05	2.902961209920 98D 05	1.146326097192 36D 05
7	2	3	1	1	-2.370289853134 71D 04	-1.829400551520 90D 04	-1.473886200942 90D 04	-1.240074660195 46D 04
7	3	0	0	4	2.120091869398 86D 06	2.023168574538 27D 05	6.730139705300 00D 04	3.680890050850 57D 04
7	3	0	2	2	-1.333658375259 71D 07	-1.387598842574 98D 06	-4.652034377661 57D 05	-2.227528826538 28D 05
7	3	0	4	0	1.860593331179 98D 06	1.234443110554 57D 05	1.706550943234 94D 04	-5.654271890828 28D 03
7	3	2	0	2	6.388174312114 76D 03	5.337604173195 73D 03	4.632378558168 21D 03	4.179923204064 86D 03
7	3	2	2	0	-3.451359422055 31D 03	-2.928191227487 47D 03	-2.586364142514 60D 03	-2.381529619628 35D 03
7	4	1	1	1	-1.120958879060 64D 04	-8.578812109306 17D 03	-6.851294683013 66D 03	-5.713262576229 62D 03
7	5	0	0	2	3.138168341957 44D 03	2.615455147399 44D 03	2.264029104248 10D 03	2.037618086504 64D 03
7	5	0	2	0	-2.368268023263 89D 02	-2.391895739158 44D 02	-2.496399155877 28D 02	-2.700456084443 19D 02
26	TERMS	OF	DEGREE	7				
8	0	0	0	8	-4.249390174806 56D 07	-1.472191087240 39D 06	9.894394355851 88D 04	2.300877787953 52D 05
8	0	0	2	6	-1.699756069922 62D 08	-5.888764348961 55D 06	3.957757742340 70D 05	9.203511151814 10D 05

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1966ApJS...13..503C

TABLE 1--Continued

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8	0	0	6	2	-1.10752583750607D 09	-8.14803653756279D 07	-1.95523117563288D 07	-6.90657277415258D 06
8	0	0	8	0	3.49869208147877D 08	2.14560169191710D 07	4.11732472761544D 06	1.03536884916869D 06
8	0	2	0	6	9.13121291915489D 07	2.22374855920034D 06	-1.66470438928184D 06	-3.17501982908264D 06
8	0	2	2	4	4.10139586253453D 09	3.44549525592707D 08	1.08158468288932D 08	7.16320461287492D 07
8	0	2	4	2	-4.19060761606643D 08	-3.20119336772039D 07	-2.05219376969513D 07	-3.53335561039484D 07
8	0	2	6	0	-8.16396282775239D 08	-6.20476942711451D 07	-1.45876398050239D 07	-3.31534065754893D 06
8	0	4	0	4	-1.29268415914419D 07	-1.47846429631073D 06	-4.74504708869764D 05	-1.76364064760400D 05
8	0	4	2	2	-2.02304438180570D 08	-1.91867427305616D 07	-6.13660721956594D 06	-3.00111135894161D 06
8	0	4	4	0	8.48159919500524D 07	8.90546784513381D 06	2.92686262853476D 06	1.34793379558163D 06
8	0	6	0	2	2.59339501779226D 04	1.89705728203600D 04	1.45805899734185D 04	1.17712304500744D 04
8	0	6	2	0	-4.90411819103631D 04	-3.55650863493291D 04	-2.70854831176185D 04	-2.16560540984070D 04
8	1	1	1	5	-1.99027892697914D 09	-1.89211836752459D 08	-6.78915488740666D 07	-5.19405475942381D 07
8	1	1	3	3	5.07168542542339D 09	4.51425715725299D 08	1.62850126832034D 08	1.40877211254534D 08
8	1	1	5	1	5.50283784329827D 08	2.77377612341430D 07	-5.46177590967866D 06	-2.49585126480166D 07
8	1	3	1	3	9.17543925987967D 07	9.08869591724649D 06	3.11255868109585D 06	1.69496526682932D 06
8	1	3	3	1	-1.92482257435538D 08	-2.00985690064460D 07	-6.75551999192221D 06	-3.31908858084844D 06
8	1	5	1	1	3.89870686859086D 04	3.05399691350258D 04	2.49996438546222D 04	2.13934621110281D 04
8	2	0	0	6	3.50048389698837D 08	2.87134057045447D 07	8.51902794182815D 06	5.13546778599546D 06
8	2	0	2	4	-8.27331049427606D 08	-1.03663157453753D 08	-4.90267431447318D 07	-5.05943113851667D 07
8	2	0	4	2	1.26243192870210D 09	1.29834621167774D 08	5.19122137849809D 07	4.92796605003519D 07
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8	2	2	4	0	1.00905612900090D 08	9.59952701153064D 06	2.95240230351319D 06	1.27754757637991D 06
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8	2	4	2	0	-9.39717603884817D 04	-6.76923324528570D 04	-5.11857331311180D 04	-4.06186197354615D 04
8	3	1	1	3	9.06404687009113D 07	8.77821343765225D 06	2.94253595739007D 06	1.57374046490075D 06
8	3	1	3	1	-1.82646577259707D 08	-1.77130747666989D 07	-5.60902670346757D 06	-2.59582364730074D 06
8	3	3	1	1	7.72050967319894D 04	6.03963899935247D 04	4.93732765282554D 04	4.21957552312186D 04
8	4	0	0	4	-2.47825075759229D 07	-2.72914795115364D 06	-9.28636806756207D 05	-4.37860523298806D 05
8	4	0	2	2	-7.05644537599749D 05	-1.05203409245930D 05	5.57797978214570D 04	1.45400753696315D 05
8	4	0	4	0	2.14716552678333D 07	1.92881746087541D 06	5.86065970357000D 05	2.63623006315430D 05
8	4	2	0	2	6.77152003170204D 04	4.84083754826295D 04	3.62888276024430D 04	2.85150769939612D 04
8	4	2	2	0	-4.33709319252349D 04	-3.07967181618656D 04	-2.29179673757838D 04	-1.78667927514100D 04
8	5	1	1	1	3.82200948320351D 04	2.98585068465962D 04	2.43757718258919D 04	2.08045244559765D 04
8	6	0	0	2	2.09155293296186D 04	1.47427281747020D 04	1.08774872761864D 04	8.39545102700164D 03
8	6	0	2	0	1.57049448124119D 03	1.34069582425043D 03	1.19201578049293D 03	1.10529223742128D 03

40 TERMS OF DEGREE 8

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1966ApJS...13..503C

TABLE 1--Continued

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3	1	0	0	2	3.72023809523809D 00	4.15282392026578D 00	4.73484848484848D 00	5.55555555555556D 00
3	1	0	2	0	-1.23707571263800D 01	-1.18688733029818D 01	-1.16600562410812D 01	-1.18055555555556D 01
3 TERMS OF DEGREE 3								
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4	0	0	2	2	-5.21982976479824D 01	-4.63590776135637D 01	-4.25767955140140D 01	-4.06901041666666D 01
4	0	0	4	0	4.34985813733187D 01	3.86325646779697D 01	3.54806629283450D 01	3.39084201388889D 01
4	0	2	0	2	1.92458782738892D 01	1.96000726141016D 01	2.05453679840367D 01	2.23214285714286D 01
4	0	2	2	0	-3.53368734955072D 01	-3.56217698373492D 01	-3.69402727099663D 01	-3.96825396825397D 01
4	1	1	1	1	3.71162712031895D 01	3.97597265650446D 01	4.36890869274423D 01	4.96031746031746D 01
4	2	0	0	2	1.29361121693469D 01	1.24433218323936D 01	1.22444414678226D 01	1.24007936507937D 01
4	2	0	2	0	3.15488305227111D 00	3.57837539085401D 00	4.15046325810701D 00	4.96031746031745D 00
8 TERMS OF DEGREE 4								
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5	0	1	3	1	-1.01515524815778D 03	-6.43604763560920D 02	-3.59545080694127D 02	-9.42314581637494D 01
5	0	3	1	1	2.59438821802021D 02	2.57523534591170D 02	2.66387426977741D 02	2.90406677468081D 02
5	1	0	0	4	-2.97299566961056D 02	-2.82663708846188D 02	-3.02060603570076D 02	-3.59768751695835D 02
5	1	0	2	2	1.59438338144547D 03	1.24061401479390D 03	1.03150131926612D 03	9.13366147741147D 02
5	1	0	4	0	2.66211808974229D 02	3.18020955447532D 02	3.75010995513051D 02	4.58339162766246D 02
5	1	2	0	2	-8.82091994126872D 01	-9.27084724528211D 01	-1.01227222251542D 02	-1.16162670987232D 02
5	1	2	2	0	8.82091994126872D 01	9.27084724528211D 01	1.01227222251542D 02	1.16162670987232D 02
5	2	1	1	1	2.15964928432468D 02	2.10645909420159D 02	2.14514935849984D 02	2.31072736555193D 02
5	3	0	0	2	-8.32821581641378D 01	-8.70831574322998D 01	-9.46567067086923D 01	-1.08251478865514D 02
5	3	0	2	0	1.05051558049427D 01	1.34540341636987D 01	1.80091857833550D 01	2.55795211935563D 01
11 TERMS OF DEGREE 5								
6	0	0	0	6	-4.18250018165351D 02	-1.72619683016494D 01	2.62326394697928D 02	5.08875362327410D 02
6	0	0	2	4	-1.25475005449605D 03	-5.17859049049493D 01	7.86979184093784D 02	1.52662608698223D 03
6	0	0	4	2	-6.81659166770291D 03	-4.25905275706324D 03	-2.83461436627986D 03	-1.98674062879741D 03
6	0	0	6	0	2.03251836260514D 03	8.79429700695286D 02	1.47200641739287D 02	-4.16852453.64373D 02
6	0	2	0	4	1.08396228149676D 03	3.42222969557828D 02	-3.17009990963309D 02	-1.08287026464003D 03
6	0	2	2	2	2.08620031797825D 04	1.73098170214408D 04	1.61933987245421D 04	1.72744828376267D 04
6	0	2	4	0	-7.99058913930835D 03	-5.67708619635702D 03	-4.27428581746901D 03	-3.42679709033401D 03
6	0	4	0	2	-4.35751696690076D 02	-4.15941882262947D 02	-4.15833278871859D 02	-4.40393005821469D 02
6	0	4	2	0	7.93304802261309D 02	7.49198028307448D 02	7.40748072036112D 02	7.75588567853654D 02
6	1	1	1	3	-1.27119734594165D 04	-1.19702671792741D 04	-1.27888382169162D 04	-1.55521786935254D 04
6	1	1	3	1	1.83205219954653D 04	1.46768794478403D 04	1.32695326467976D 04	1.38573364121093D 04

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1966ApJS...13..503C

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6	2	0	2	2	-1.91690082980649D 03	-2.90744041403541D 03	-4.23435042718393D 03	-6.39087362638080D 03
6	2	0	4	0	-2.65340502844466D 03	-1.96280003749645D 03	-1.50792289427120D 03	-1.14576785617299D 03
6	2	2	0	2	-7.29424462101371D 02	-6.80881632115972D 02	-6.64656210672608D 02	-6.86228959854919D 02
6	2	2	2	0	6.81475315002600D 02	6.32050772562835D 02	6.13466252322848D 02	6.30603390249086D 02
6	3	1	1	1	-8.09643939694480D 02	-8.10639799945372D 02	-8.47609614678586D 02	-9.36731649010392D 02
6	4	0	0	2	-2.95892496176655D 02	-2.67483234062902D 02	-2.51805191941838D 02	-2.49441315026420D 02
6	4	0	2	0	-4.56775603616545D 01	-4.94959587972196D 01	-5.60462817724942D 01	-6.72123904704869D 01
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7	0	1	3	3	4.84198390400284D 05	3.64429504476083D 05	3.07346601532081D 05	2.92996298850345D 05
7	0	1	5	1	-3.17682378988793D 05	-1.52861254000331D 05	-7.72324514848772D 04	-3.91110515882470D 04
7	0	3	1	3	-1.00382127469156D 05	-9.44796138736700D 04	-1.06561002408065D 05	-1.41478680820529D 05
7	0	3	3	1	1.75335891802079D 05	1.11808815770460D 05	7.23510108646457D 04	3.98031503082577D 04
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7	1	0	0	6	-1.45410134841958D 05	-9.64912195071422D 04	-7.38494960434842D 04	-6.54311495846432D 04
7	1	0	2	4	2.14414643311247D 05	8.35910140355256D 04	2.32630745672935D 04	-1.09039323891974D 04
7	1	0	4	2	6.73008091420336D 05	4.01607316148334D 05	2.72831482673903D 05	2.13886626326574D 05
7	1	0	6	0	3.02334779830551D 04	3.25793034419334D 04	2.98523030267301D 04	2.71905429938763D 04
7	1	2	0	4	3.41299233395132D 04	3.40126609945212D 04	4.04931809150647D 04	5.65914723282115D 04
7	1	2	2	2	-2.66154466276381D 05	-2.09953791600137D 05	-1.92440767738318D 05	-2.06528372209007D 05
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7	2	1	3	1	3.87666067356251D 04	-6.65829215892607D 03	-4.59987600657004D 04	-9.73844125483557D 04
7	2	3	1	1	-1.09228901188495D 04	-1.01253194166972D 04	-9.97123397470343D 03	-1.06051273722563D 04
7	3	0	0	4	2.83774287455461D 04	2.81290374126326D 04	3.36584052430631D 04	4.75282871305704D 04
7	3	0	2	2	-1.28506482104030D 05	-8.39300376109724D 04	-6.04249071768454D 04	-4.75135523882615D 04
7	3	0	4	0	-1.40163134691383D 04	-1.98111729316460D 04	-2.72892809752912D 04	-4.10199658680262D 04
7	3	2	0	2	3.93261844583268D 03	3.87896713789185D 03	4.04928410624284D 03	4.54725059798001D 03
7	3	2	2	0	-2.29387644723083D 03	-2.32544725713132D 03	-2.50717563836554D 03	-2.92594183307985D 03
7	4	1	1	1	-4.98829739231232D 03	-4.58585710442992D 03	-4.48360283830827D 03	-4.74363464334294D 03
7	5	0	0	2	1.91225160101031D 03	1.88176856667569D 03	1.96046745820856D 03	2.19839101065944D 03
7	5	0	2	0	-3.04232519576065D 02	-3.59649725543290D 02	-4.51403424027554D 02	-6.13135855688980D 02
26	TERMS	OF	DEGREE	7				
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8	0	0	2	6	8.11472253357348D 05	6.57501461909927D 05	5.45339526673624D 05	4.87250179427092D 05

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8	0	0	6	2	-3.05528964357644D 06	-1.60180305688616D 06	-9.78471587051290D 05	-7.01745062270701D 05
8	0	0	8	0	2.46514892525367D 05	9.09263319875923D 03	-6.86801427970539D 04	-9.90474929343805D 04
8	0	2	0	6	2.97916103572697D 06	4.51198410451822D 04	-3.37956649[illegible]1336D 05	-5.53396837760614D 05
8	0	2	2	4	-3.84690373387218D 07	-1.25421766982617D 06	1.06164266880966D 06	1.42743580410808D 06
8	0	2	4	2	5.73093995737751D 07	1.28555051432198D 07	7.31117102788186D 06	5.82392793609323D 06
8	0	2	6	0	-6.21983772540660D 06	-1.97140552764257D 06	-1.02095263020450D 06	-6.26094639578929D 05
8	0	4	0	4	-4.04359640249889D 04	4.68113595768382D 04	1.31069204823096D 05	2.56823031442119D 05
8	0	4	2	2	-1.92714141429500D 06	-1.54957724702794D 06	-1.54142047650286D 06	-1.91886398108859D 06
8	0	4	4	0	7.36840848395918D 05	4.49700509447459D 05	2.98419891888902D 05	2.15487807593366D 05
8	0	6	0	2	1.00006188207846D 04	8.98292096702280D 03	8.60672389102862D 03	8.93682584308717D 03
8	0	6	2	0	-1.82125630331479D 04	-1.61865628479859D 04	-1.53388590779044D 04	-1.57473271980545D 04
8	1	1	1	5	3.22364339032139D 07	1.00049557893244D 06	-1.57738958856558D 06	-2.47010105391193D 06
8	1	1	3	3	-1.27653601688820D 08	-1.81309727518586D 07	-7.28541186462495D 06	-4.38166214579133D 06
8	1	1	5	1	4.71086212633682D 07	1.09260326111026D 07	6.38112463322311D 06	5.41546041558418D 06
8	1	3	1	3	1.25546325064661D 06	1.18310397565076D 06	1.37070475347328D 06	1.94600803517826D 06
8	1	3	3	1	-2.05545888937984D 06	-1.54914970319669D 06	-1.43466229882609D 06	-1.69628376989062D 06
8	1	5	1	1	1.91849636606741D 04	1.81220283468063D 04	1.81986430563891D 04	1.97473224329133D 04
8	2	0	0	6	-2.50103272781939D 06	-1.34969363162656D 05	-3.82526274138738D 04	-5.93766269782269D 04
8	2	0	2	4	4.74506610950722D 07	5.45185519176737D 06	8.78268117989980D 05	-8.12088088900480D 05
8	2	0	4	2	-4.98062298244651D 07	-8.18554820600174D 06	-3.99731037757071D 06	-3.12719968203704D 06
8	2	0	6	0	2.44475071636697D 06	2.87736157928190D 05	3.46407619437554D 05	5.76452910465014D 05
8	2	2	0	4	-2.94300680659902D 05	-1.19335996463461D 05	1.70450648627044D 03	1.24444455848585D 05
8	2	2	2	2	-1.31495359539454D 06	-8.67239901214891D 05	-6.71453817398516D 05	-6.20636838122631D 05
8	2	2	4	0	6.43525598537037D 05	3.40806537863238D 05	1.62799705834680D 05	2.15850505787065D 04
8	2	4	0	2	2.67404126400393D 04	2.36867977986433D 04	2.23624294923720D 04	2.28610130426788D 04
8	2	4	2	0	-3.38933890983031D 04	-2.98814687662537D 04	-2.80872571299708D 04	-2.86054845372097D 04
8	3	1	1	3	1.15241741711914D 06	1.08201463664342D 06	1.25750733074577D 06	1.80060508627547D 06
8	3	1	3	1	-1.50701496848580D 06	-1.06514031747155D 06	-9.42965486001691D 05	-1.11858900025867D 06
8	3	3	1	1	3.77930396940800D 04	3.56599623094519D 04	3.57793928906409D 04	3.88035193719612D 04
8	4	0	0	4	-2.45105820785078D 05	-1.57049315529638D 05	-1.18610943177713D 05	-1.17838280703254D 05
8	4	0	2	2	2.22601904520408D 05	3.20519308333360D 05	4.85027226313857D 05	8.26872618173568D 05
8	4	0	4	0	1.46578422090471D 05	9.27599012941514D 04	6.10241721326769D 04	2.98077091773050D 04
8	4	2	0	2	2.35280042660425D 04	2.04774011907926D 04	1.89633871677611D 04	1.89806611054827D 04
8	4	2	2	0	-1.46179070201158D 04	-1.26091285241014D 04	-1.15681701018028D 04	-1.14687233846932D 04
8	5	1	1	1	1.86104478788180D 04	1.75405106915229D 04	1.75836237946365D 04	1.90595119456449D 04
8	6	0	0	2	6.78807604221447D 03	5.77336975543950D 03	5.20749954892671D 03	5.05625290545125D 03
8	6	0	2	0	1.07244401261629D 03	1.09555178570748D 03	1.19055775227716D 03	1.40075520426436D 03

40 TERMS OF DEGREE 8

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TABLE 1--Continued

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2	2	0	0	0	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01
2 TERMS OF DEGREE 2								
3	0	1	1	1	-1.61749482401656D 01	-2.01482914248872D 01	-2.83061594202898D 01	-5.31462585034014D 01
3	1	0	0	2	6.79347826086956D 00	8.86524822695035D 00	1.30208333333333D 01	2.55102040816327D 01
3	1	0	2	0	-1.24624125012324D 01	-1.40305374831487D 01	-1.77467312539382D 01	-2.98504818594104D 01
3 TERMS OF DEGREE 3								
4	0	0	0	4	-2.04675709631186D 01	-2.21743792388614D 01	-2.72633192821995D 01	-4.50526415535833D 01
4	0	0	2	2	-4.09351419262371D 01	-4.43487584777228D 01	-5.45266385643990D 01	-9.01052831071665D 01
4	0	0	4	0	3.41126182718642D 01	3.69572987314357D 01	4.54388654703325D 01	7.50877359226388D 01
4	0	2	0	2	2.54422782021847D 01	3.11409942545097D 01	4.31542020809296D 01	8.02212018729876D 01
4	0	2	2	0	-4.46981689642866D 01	-5.40367799646088D 01	-7.39217666682011D 01	-1.35581887814031D 02
4	1	1	1	1	5.89179756198359D 01	7.49564413128243D 01	1.07709891249200D 02	2.07170966099538D 02
4	2	0	0	2	1.30695033220192D 01	1.46505771656884D 01	1.83809270936135D 01	3.05001700090986D 01
4	2	0	2	0	6.18638744008276D 00	8.24520854441066D 00	1.23866374936580D 01	2.48605159319445D 01
8 TERMS OF DEGREE 4								
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5	0	1	3	1	2.30802659118966D 02	7.87041410855718D 02	2.22155271241396D 03	9.73159759081403D 03
5	0	3	1	1	3.40490942622384D 02	4.47022782934694D 02	7.22994025730563D 02	1.98480905635419D 03
5	1	0	0	4	-4.81816655715344D 02	-7.52370752332191D 02	-1.51267535078357D 03	-5.47448388381936D 03
5	1	0	2	2	8.66177412549732D 02	8.96513108566719D 02	1.06439860146019D 03	1.71358652109397D 03
5	1	0	4	0	6.03719077876300D 02	9.04529418758012D 02	1.72060769447981D 03	5.84809295308753D 03
5	1	2	0	2	-1.43006195901401D 02	-1.96690024491265D 02	-3.32577251836059D 02	-9.52708347050014D 02
5	1	2	2	0	1.43006195901401D 02	1.96690024491265D 02	3.32577251836059D 02	9.52708347050013D 02
5	2	1	1	1	2.69457503651710D 02	3.55896978965592D 02	5.90893001337411D 02	1.72835856355916D 03
5	3	0	0	2	-1.33061514445507D 02	-1.83324906575797D 02	-3.12321761429109D 02	-9.11676268202809D 02
5	3	0	2	0	3.95409182235453D 01	6.97545409503056D 01	1.56220469763601D 02	6.23938815286784D 02
11 TERMS OF DEGREE 5								
6	0	0	0	6	8.07421488357690D 02	1.31760624628126D 03	2.59640385115045D 03	8.88011480127952D 03
6	0	0	2	4	2.42226446507307D 03	3.95281873884379D 03	7.78921155345134D 03	2.66403444038386D 04
6	0	0	4	2	-1.44874876786600D 03	-1.06553426180101D 03	-6.56853303375691D 02	8.58247240488174D 02
6	0	0	6	0	-1.00212462779910D 03	-1.89506314168982D 03	-4.02287550116558D 03	-1.43798331301449D 04
6	0	2	0	4	-2.28395083495140D 03	-4.87946877117441D 03	-1.34197781018648D 04	-8.05002801668597D 04
6	0	2	2	2	2.16710900725333D 04	3.41734644156691D 04	7.92481400290949D 04	4.49248585172731D 05
6	0	2	4	0	-3.02905641008924D 03	-3.33556088915482D 03	-6.48325400364788D 03	-4.58534374049458D 04
6	0	4	0	2	-5.04435700654183D 02	-6.51291852062663D 02	-1.04503390325397D 03	-2.88489993181710D 03
6	0	4	2	0	8.78070704235589D 02	1.12044026847889D 03	1.77705144845303D 03	4.85223339177132D 03
6	1	1	1	3	-2.20407530636463D 04	-3.86605137230558D 04	-9.76006805341986D 04	-5.85839179686192D 05
6	1	1	3	1	1.75018681403816D 04	2.90162299167959D 04	7.45870883050499D 04	4.93473373662039D 05

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TABLE 1--Continued

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6	2	0	2	2	-1.062422937696 02D 04	-2.113586320742 49D 04	-5.943594221154 92D 04	-3.950037766078 22D 05
6	2	0	4	0	-7.138869618980 42D 02	2.433183430166 26D 02	4.270587745329 85D 03	4.817099175900 97D 04
6	2	2	0	2	-7.649972714858 10D 02	-9.595763655884 81D 02	-1.492914546086 75D 03	-3.987164345879 42D 03
6	2	2	2	0	7.015745581191 37D 02	8.819123281148 15D 02	1.385223493592 33D 03	3.786812398383 31D 03
6	3	1	1	1	-1.117957568900 28D 03	-1.503263905649 94D 03	-2.514955488097 94D 03	-7.268908473670 03D 03
6	4	0	0	2	-2.651130910083 75D 02	-3.144291531727 47D 02	-4.572373919121 10D 02	-1.121313156099 31D 03
6	4	0	2	0	-8.738100811747 36D 01	-1.288312507522 59D 02	-2.388831357888 06D 02	-7.792363213562 13D 02
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7	0	1	1	5	1.663249482111 50D 05	2.295441102484 56D 05	5.814919741919 88D 05	6.140542855252 47D 06
7	0	1	3	3	3.287336391869 52D 05	4.836305513735 44D 05	1.237896385188 37D 06	1.257869854198 45D 07
7	0	1	5	1	-1.669416781533 32D 04	9.514207752871 88D 03	1.536768219863 63D 05	3.852648578609 00D 06
7	0	3	1	3	-2.263207207430 95D 05	-4.725145451445 60D 05	-1.580502654970 40D 06	-1.665246231722 98D 07
7	0	3	3	1	-5.493770002378 57D 03	-1.276302818903 42D 05	-7.749712944576 17D 05	-1.199355132781 51D 07
7	0	5	1	1	-6.964671[illegible]4500073D 03	-9.709566054403 18D 03	-1.828104543622 72D 04	-7.433924880512 17D 04
7	1	0	0	6	-6.985647[illegible]2486829D 04	-1.009994085093 21D 05	-2.674863081283 14D 05	-2.974605705211 8D 06
7	1	0	2	4	-3.902685994902 32D 04	-8.298755002706 96D 04	-2.440244680652 15D 05	-2.677235893625 55D 06
7	1	0	4	2	2.035581687114 18D 05	2.644294135700 96D 05	6.058030806407 02D 05	4.967242009949 48D 06
7	1	0	6	0	2.733149271585 08D 04	3.864452505955 72D 04	1.319697313429 13D 05	2.247304628539 14D 06
7	1	2	0	4	9.505470271209 99D 04	2.079063998636 07D 05	7.270312212863 84D 05	7.993181912270 33D 06
7	1	2	2	2	-2.668035066713 03D 05	-4.417907842711 33D 05	-1.091878383306 24D 06	-6.658746756496 52D 06
7	1	2	4	0	-2.221828372380 15D 04	-7.930691635569 46D 04	-3.900794504307 12D 05	-5.841144800402 85D 06
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7	1	4	2	0	-2.925162216900 31D 03	-4.272209063937 40D 03	-8.409280900664 52D 03	-3.568283942645 83D 04
7	2	1	1	3	-1.258257453207 08D 05	-2.870674337468 92D 05	-1.082927479926 34D 06	-1.343820472888 98D 07
7	2	1	3	1	-1.949553907403 72D 05	-4.592972189529 68D 05	-1.632001297046 7D 06	-1.740253844806 82D 07
7	2	3	1	1	-1.255246883528 57D 04	-1.755395365036 73D 04	-3.342244949563 51D 04	-1.395721797808 33D 05
7	3	0	0	4	8.098540615296 58D 04	1.807074901919 49D 05	6.507363611129 62D 05	7.478900698135 92D 06
7	3	0	2	2	-4.098744025079 21D 04	-3.971214986355 98D 04	-4.629114387550 63D 04	-8.375080322838 38D 04
7	3	0	4	0	-7.253814028928 31D 04	-1.672357425881 96D 05	-6.227544994880 93D 05	-7.374839582735 41D 06
7	3	2	0	2	5.657561926140 40D 03	8.270858620637 07D 03	1.633715012355 01D 04	6.990866800021 11D 04
7	3	2	2	0	-3.814220052954 04D 03	-5.908549126581 66D 03	-1.257436965460 74D 04	-5.959249023542 65D 04
7	4	1	1	1	-5.603855335888 20D 03	-7.865140157049 90D 03	-1.517172116821 37D 04	-6.529226447182 28D 04
7	5	0	0	2	2.733748618670 77D 03	4.000475782075 22D 03	7.930658396895 69D 03	3.423152458937 94D 04
7	5	0	2	0	-9.316903752054 80D 02	-1.688948433862 20D 03	-4.238628393581 28D 03	-2.404762975540 72D 04
26	TERMS	OF	DEGREE	7				
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8	0	0	2	6	5.003408066056 57D [illegible]	6.779960662931 03D 05	1.694480566590 10D 06	1.818593518523 84D 07

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TABLE 1--Continued

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8	0	0	6	2	-6.133316446192420D 05	-7.173650766875820D 05	-1.420825108905700D 06	-1.002472712493010D 07
8	0	0	8	0	-1.251667981956720D 05	-1.933025291398350D 05	-5.525598026260250D 05	-6.860756002931430D 06
8	0	2	0	6	-8.953360179604430D 05	-1.946280477021710D 06	-8.284751772367390D 06	-1.755595718222080D 08
8	0	2	2	4	1.914730221575110D 06	4.327393203276340D 06	2.445019194827410D 07	7.108276495400390D 08
8	0	2	4	2	6.271248195341430D 06	1.040352053067260D 07	3.835711618748020D 07	8.102845648935910D 08
8	0	2	6	0	-4.892583039554230D 05	-7.241266183062970D 05	-3.764450483991050D 06	-1.224885236272410D 08
8	0	4	0	4	5.310561952024060D 05	1.407899564985410D 06	6.428408295380060D 06	1.199681867540140D 08
8	0	4	2	2	-3.121779706719990D 06	-7.370568392085770D 06	-3.272501283589150D 07	-6.390845203471330D 08
8	0	4	4	0	1.848910505462440D 05	2.924172631661650D 05	1.750239448765190D 06	6.226900977396640D 07
8	0	6	0	2	1.035517064529390D 04	1.420075736175520D 04	2.651766557930840D 04	1.082809571109890D 05
8	0	6	2	0	-1.803575315598790D 04	-2.444444779665840D 04	-4.511548730132420D 04	-1.821733954069440D 05
8	1	1	1	5	-3.864620151383400D 06	-8.946286478220490D 06	-4.536009148414610D 07	-1.188006110406400D 09
8	1	1	3	3	-3.469958346555050D 06	-3.371961185919520D 06	-3.180857968233820D 06	2.587165894344470D 07
8	1	1	5	1	6.594210872679950D 06	1.304453431076180D 07	5.666573591531430D 07	1.286806163258560D 09
8	1	3	1	3	3.514469361584840D 06	8.964003419409800D 06	4.193528307251950D 07	8.438600581009540D 08
8	1	3	3	1	-2.735500582252940D 06	-6.749990982092140D 06	-3.289548062168040D 07	-7.314643733512350D 08
8	1	5	1	1	2.384837599307670D 04	3.400778053940400D 04	6.590250065018200D 04	2.788361784172160D 05
8	2	0	0	6	-8.376578616992790D 04	2.190254818679480D 04	2.148069268986210D 06	1.095618946753270D 08
8	2	0	2	4	-2.475964945235510D 06	-6.970380031847620D 06	-3.527556153417430D 07	-8.320638952900280D 08
8	2	0	4	2	-3.674352867648330D 06	-7.186465434481440D 06	-3.191640362669890D 07	-7.649712918897330D 08
8	2	0	6	0	1.061227987279260D 06	2.533690893617240D 06	1.077806439239600D 07	2.036707953233490D 08
8	2	2	0	4	3.240738244719970D 05	8.437183777006720D 05	3.211701484080630D 06	3.740995956378990D 07
8	2	2	2	2	-7.226668765858020D 05	-1.192344789805540D 06	-3.588655518353060D 06	-4.016730743602380D 07
8	2	2	4	0	-1.584275119130570D 05	-5.659602760935120D 05	-2.301278633868990D 06	-2.571711792006080D 07
8	2	4	0	2	2.605735297733560D 04	3.512056036659690D 04	6.439542158838340D 04	2.579221885128370D 05
8	2	4	2	0	-3.251654825941590D 04	-4.378443609311720D 04	-8.044748363219760D 04	-3.247260683900290D 05
8	3	1	1	3	3.294775506751590D 06	8.548700552284990D 06	4.079097392846280D 07	8.362494044220330D 08
8	3	1	3	1	-1.930973521370240D 06	-5.338284224596090D 06	-2.926173478814750D 07	-7.087566554635790D 08
8	3	3	1	1	4.686175640808400D 04	6.687901178798520D 04	1.298812647696450D 05	5.520554078307810D 05
8	4	0	0	4	-1.839145159729190D 05	-5.184978719010130D 05	-3.085111259732910D 06	-8.164494874874460D 07
8	4	0	2	2	1.718118994165110D 06	4.943810871564220D 06	2.586653815678470D 07	5.779612060994920D 08
8	4	0	4	0	-3.906494348977340D 04	-3.330030621896010D 05	-2.712113039408050D 06	-7.965238941837650D 07
8	4	2	0	2	2.113686855448670D 04	2.776386906991850D 04	4.945907613987420D 04	1.916755395731430D 05
8	4	2	2	0	-1.265264855646510D 04	-1.648007019374870D 04	-2.918238873191110D 04	-1.130917321786340D 05
8	5	1	1	1	2.301738428874670D 04	3.287641561840190D 04	6.398635340071720D 04	2.732341142077910D 05
8	6	0	0	2	5.434405951283310D 03	6.843685877956710D 03	1.158073828590310D 04	4.203311738775770D 04
8	6	0	2	0	1.841171616222460D 03	2.876019927016500D 03	6.172158363282920D 03	2.950333540473320D 04

40 TERMS OF DEGREE 8

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TABLE 1--Continued

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2	2	0	0	0	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01
2 TERMS OF DEGREE 2								
3	0	1	1	1	4.71342383107089D 01	2.22578347578347D 01	1.40386343216532D 01	9.97765006385697D 00
3	1	0	0	2	-2.45098039215686D 01	-1.20192307692308D 01	-7.86163522012579D 00	-5.78703703703704D 00
3	1	0	2	0	2.08115790694977D 01	8.58987548802363D 00	4.67285970992171D 00	2.81438543180517D 00
3 TERMS OF DEGREE 3								
4	0	0	0	4	3.14266246702105D 01	1.32517401345514D 01	7.49431696232113D 00	4.79419355799024D 00
4	0	0	2	2	6.28532493404211D 01	2.65034802691028D 01	1.49886339246423D 01	9.58838711598047D 00
4	0	0	4	0	-5.23777077836842D 01	-2.20862335575857D 01	-1.24905282705352D 01	-7.99032259665039D 00
4	0	2	0	2	-7.05164939301788D 01	-3.33341529496924D 01	-2.11245683786115D 01	-1.51419254492186D 01
4	0	2	2	0	1.15837876921245D 02	5.39432592069467D 01	3.36590633086590D 01	2.37433479180608D 01
4	1	1	1	1	-1.93808545685481D 02	-9.42596051291703D 01	-6.13576674897430D 01	-4.51069171060441D 01
4	2	0	0	2	-2.01262720519538D 01	-7.88405956481640D 00	-3.94442148148348D 00	-2.06091948846581D 00
4	2	0	2	0	-2.51951109391125D 01	-1.27250466924380D 01	-8.59007344856402D 00	-6.54050298037640D 00
8 TERMS OF DEGREE 4								
5	0	1	1	3	8.84793464745053D 03	1.97234159997579D 03	7.87009151837768D 02	3.99966468436568D 02
5	0	1	3	1	9.92529693129760D 03	2.41326487945830D 03	1.03050754323380D 03	5.52950164062643D 02
5	0	3	1	1	6.48531341736020D 02	3.76503748246564D 01	-2.96483579106691D 01	-3.88649321241288D 01
5	1	0	0	4	-4.60092601667427D 03	-1.06506446398692D 03	-4.40725125029150D 02	-2.31980551693209D 02
5	1	0	2	2	-1.15911346213444D 03	-4.85666405836481D 02	-2.74354284926634D 02	-1.76168292403530D 02
5	1	0	4	0	4.30436537379217D 03	9.33181833213744D 02	3.62421830660805D 02	1.79549692551929D 02
5	1	2	0	2	-3.37236297702730D 02	-2.03312024053143D 01	1.66030804299747D 01	2.25416606319947D 01
5	1	2	2	0	3.37236297702730D 02	2.03312024053144D 01	-1.66030804299747D 01	-2.25416606319947D 01
5	2	1	1	1	8.93288547340032D 02	1.57977689378846D 02	4.95678002820376D 01	2.00644641787090D 01
5	3	0	0	2	-3.79660880007425D 02	-4.19901190250685D 01	1.81606423400274D 00	1.11486440134460D 01
5	3	0	2	0	6.28133374475990D 02	1.58360001900587D 02	7.12287780156912D 01	4.06983871429265D 01
11 TERMS OF DEGREE 5								
6	0	0	0	6	6.29840757388524D 03	1.32012256222021D 03	4.92348737415729D 02	2.33018764759658D 02
6	0	0	2	4	1.88952227216557D 04	3.96036768666064D 03	1.47704621224719D 03	6.99056294278973D 02
6	0	0	4	2	3.16365935497222D 03	8.28950981928476D 02	3.56691073994168D 02	1.86573119952730D 02
6	0	0	6	0	-1.07101839892108D 04	-2.27798629593804D 03	-8.59096194663999D 02	-4.10144647605998D 02
6	0	2	0	4	3.14004235196774D 04	1.38618137947078D 03	-2.33287556581722D 02	-3.28836918973400D 02
6	0	2	2	2	-2.47053449700131D 05	-2.39808446793570D 04	-5.69372132503594D 03	-1.98670963984510D 03
6	0	2	4	0	6.94176358097627D 04	1.06914212259789D 04	3.73632959629410D 03	1.79021715330377D 03
6	0	4	0	2	-1.07748025567736D 03	-1.09715137448284D 02	8.95850654221499D 00	3.19383397320246D 01
6	0	4	2	0	1.78932188436729D 03	1.86356913172800D 02	-8.90698742471861D 00	-4.63921401721665D 01
6	1	1	1	3	3.22248468609065D 05	2.88934640333625D 04	5.85440375729720D 03	1.54168153020203D 03
6	1	1	3	1	-4.08519514348508D 05	-4.93801316370532D 04	-1.44627203068691D 04	-6.11129126928701D 03

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1966ApJS...13..503C

TABLE 1--Continued

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6	2	0	2	2	2.73146975851746D 05	2.85330373968228D 04	7.10359893632097D 03	2.53557611392789D 03
6	2	0	4	0	-5.71317230612987D 04	-7.17994626840125D 03	-2.10048063484912D 03	-8.68411162959314D 02
6	2	2	0	2	-1.37977721268665D 03	-1.33095664935459D 02	1.23143941763996D 01	3.75263060242793D 01
6	2	2	2	0	1.55628481288185D 03	2.16656300042536D 02	4.07321403276451D 01	5.74596757727825D-01
6	3	1	1	1	-3.13460060552883D 03	-3.95468022296640D 02	-3.01310825343915D 01	5.33314414397566D 01
6	4	0	0	2	-2.82390527624578D 02	-1.31596494576832D 01	1.03755486430146D 01	1.10300940033750D 01
6	4	0	2	0	-4.88286967797083D 02	-9.13356713025251D 01	-2.81092459285259D 01	-9.27659449056879D 00
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7	0	1	5	1	7.19233510630496D 06	5.52327139253485D 05	1.26903663246804D 05	4.47815663920079D 04
7	0	3	1	3	-7.21639289367214D 06	-3.04320724128762D 05	-4.28919064781013D 04	-1.07185004091957D 04
7	0	3	3	1	-9.93447991979987D 06	-5.75711593113945D 05	-1.08638463574102D 05	-3.38226690335183D 04
7	0	5	1	1	7.14677520073581D 03	-5.48443190751946D 02	-2.79904945083001D 02	-7.99313402493286D 01
7	1	0	0	6	-2.97517405609150D 06	-2.10236668578870D 05	-4.64613875648453D 04	-1.60857049437460D 04
7	1	0	2	4	-3.56384841604655D 06	-2.97384906572982D 05	-7.47266328542034D 04	-2.85046181507534D 04
7	1	0	4	2	1.33471418180088D 06	1.22552293120443D 04	-1.04968848716915D 04	-7.16677327721739D 03
7	1	0	6	0	3.22657020343122D 06	2.24927291507040D 05	4.72374187887834D 04	1.53299247184004D 04
7	1	2	0	4	3.75252430470951D 06	1.64333191029531D 05	2.40194676277367D 04	6.21673028733351D 03
7	1	2	2	2	4.25615481779590D 06	4.41158216500144D 05	1.10339949256202D 05	3.98214871788299D 04
7	1	2	4	0	-5.19239881694042D 06	-3.13440596539045D 05	-6.07239300680186D 04	-1.90655173596289D 04
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7	1	4	2	0	3.71632310438262D 03	-2.96159323006050D 02	-1.56746769246481D 02	-4.63601773446107D 01
7	2	1	1	3	-9.37670628824631D 06	-5.27494687009628D 05	-9.75600878676904D 04	-2.96949652817018D 04
7	2	1	3	1	-6.32167978594252D 06	-1.96363320516122D 05	-1.29175110869079D 04	9.24024391954159D 02
7	2	3	1	1	1.81461168028099D 04	-6.44903547113759D 02	-5.56200647373640D 02	-2.56182750876072D 02
7	3	0	0	4	4.12697862643570D 06	2.04504504348087D 05	3.42241948204600D 04	9.88551344601803D 03
7	3	0	2	2	1.28073946268668D 04	8.58599822137581D 03	5.22535976702466D 03	3.39813247834527D 03
7	3	0	4	0	-4.03745106785811D 06	-1.83837997525594D 05	-2.57629550410943D 04	-5.50836618463919D 03
7	3	2	0	2	-8.10042438499722D 03	5.10961735821877D 02	3.12819813171720D 02	1.11342234962188D 02
7	3	2	2	0	1.19228272383901D 04	-1.16199001660432D 02	-3.36640471794298D 02	-2.15782874834443D 02
7	4	1	1	1	1.10569598967319D 04	-6.78708076309114D 01	-2.57291595340459D 02	-1.61971308944099D 02
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8	0	0	2	6	1.68056777265192D 07	1.09050367633342D 06	2.18589645557464D 05	6.82816329547232D 04

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8	0	0	6	2	-3.810671511860540 06	-1.964655408614420 05	-3.443441308236650 04	-9.846836852545240 03
8	0	0	8	0	-7.346627597811230 06	-4.875714759452140 05	-9.893612414483130 04	-3.115136335537760 04
8	0	2	0	6	1.152871637901900 08	3.023336150246200 06	3.120893003301230 05	5.022408947955050 04
8	0	2	2	4	-6.587371669007090 08	-1.969058225007180 07	-2.470811056681930 06	-5.595762357682610 05
8	0	2	4	2	-6.381453150346030 08	-1.885680488818950 07	-2.302102348503210 06	-4.918461778541760 05
8	0	2	6	0	1.566004619008310 08	5.687449876964270 06	8.742849417502950 05	2.408849699194750 05
8	0	4	0	4	-3.777382817805500 07	-5.947744946107710 05	-2.506477215833430 04	4.800126138202750 03
8	0	4	2	2	2.803974796028620 08	6.461775128879880 06	6.797708948587230 05	1.382888923316840 05
8	0	4	4	0	-7.164736726480950 07	-2.320156476740590 06	-3.234223458133630 05	-8.435285617174810 04
8	0	6	0	2	-1.239339192323530 04	6.142630680431900 02	4.149597430731140 02	1.619639368930240 02
8	0	6	2	0	2.066597981998990 04	-9.596273938487840 02	-6.601314306516060 02	-2.594435450455890 02
8	1	1	1	5	1.044782604602130 09	3.106143795687520 07	3.815928432592970 06	8.238882648800180 05
8	1	1	3	3	3.723247874355930 07	1.329912545749640 06	3.241047656967310 04	-6.154663201945580 04
8	1	1	5	1	-1.042044747171170 09	-3.286972810371650 07	-4.476681018270700 06	-1.107192227443470 06
8	1	3	1	3	-3.701829413973300 08	-8.263430047549540 06	-8.174884918764380 05	-1.492788224641220 05
8	1	3	3	1	4.405077507894820 08	1.199965916171320 07	1.490272227034030 06	3.573017815577110 05
8	1	5	1	1	-3.438174661295420 04	1.699801698843330 03	1.204102114571680 03	4.888326790487910 02
8	2	0	0	6	-1.563563134063640 08	-5.363252098110110 06	-7.563706607959080 05	-1.887035073356550 05
8	2	0	2	4	6.015468938530360 08	1.699669178464610 07	2.026896584305850 06	4.310411619338250 05
8	2	0	4	2	6.624786650738380 08	2.048955361615280 07	2.656821147709480 06	6.120296537870330 05
8	2	0	6	0	-1.089599276829700 08	-3.135305581607900 06	-4.121644466505500 05	-1.007352324830550 05
8	2	2	0	4	2.069990840719600 07	1.041577123616830 06	1.787672334087340 05	5.289111079100100 04
8	2	2	2	2	-2.988325717803320 07	-1.800912583215660 06	-3.501988042671030 05	-1.089824467889240 05
8	2	2	4	0	-9.685437844741460 06	-3.322411289011130 05	-3.457155115671970 04	-6.497623771041200 03
8	2	4	0	2	-2.824092165033790 04	1.383842745441870 03	9.077306371392700 02	3.441303337549240 02
8	2	4	2	0	3.931488687764800 04	-1.404300184429120 03	-1.143415440797960 03	-4.987565026103260 02
8	3	1	1	3	-3.647151901297490 08	-7.676687919597810 06	-6.676464879464680 05	-9.481915178521980 04
8	3	1	3	1	4.258831326384620 08	1.050347630103560 07	1.124404199078710 06	2.294046245609250 05
8	3	3	1	1	-7.119322437697770 04	3.105476698489850 03	2.399391466605370 03	1.034062254810110 03
8	4	0	0	4	5.776292892046530 07	1.557141430954120 06	1.828541250168730 05	4.019433240435740 04
8	4	0	2	2	-2.962118046571370 08	-6.799035916156770 06	-6.669377828324900 05	-1.188967329373790 05
8	4	0	4	0	5.657857992834330 07	1.433865869386030 06	1.522010397806430 05	2.953900957875800 04
8	4	2	0	2	-1.898580248133080 04	9.646033911457410 02	5.718158318145170 02	1.941913068074570 02
8	4	2	2	0	1.261157847516980 04	-3.879279161387720 02	-3.108929146038840 02	-1.279702766317640 02
8	5	1	1	1	-3.682599850360460 04	1.398452432101620 03	1.190476191772770 03	5.416033437443960 02
8	6	0	0	2	-3.137014290131210 03	1.956737448261010 02	7.949416603938030 01	1.237544570719420 01
8	6	0	2	0	-6.075521850853130 03	3.844697377555000 01	1.606298988287230 02	1.027851901813120 02

40 TERMS OF DEGREE 8

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1966ApJS...13..503C

TABLE 1--Continued

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2	2	0	0	0	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01
2 TERMS OF DEGREE 2								
3	0	1	1	1	7.57575757575757D 00	6.00038402457757D 00	4.89505012531329D 00	4.08176593521421D 00
3	1	0	0	2	-4.54545454545454D 00	-3.72023809523809D 00	-3.13283208020050D 00	-2.69396551724138D 00
3	1	0	2	0	1.76767676767677D 00	1.11878127942124D 00	6.91425830200503D-01	3.98281403375447D-01
3 TERMS OF DEGREE 3								
4	0	0	0	4	3.28808922558923D 00	2.36034373763950D 00	1.75060634326218D 00	1.33102914971454D 00
4	0	0	2	2	6.57617845117845D 00	4.72068747527900D 00	3.50121268652436D 00	2.66205829942909D 00
4	0	0	4	0	-5.48014870931537D 00	-3.93390622939917D 00	-2.91767723877030D 00	-2.21838191619091D 00
4	0	2	0	2	-1.16398358585859D 01	-9.37147319439385D 00	-7.80397345943619D 00	-6.67210896514382D 00
4	0	2	2	0	1.79529671717172D 01	1.42104925690532D 01	1.16282313698372D 01	9.76435885760640D 00
4	1	1	1	1	-3.55113636363636D 01	-2.92416375466743D 01	-2.48732221814699D 01	-2.16961336031939D 01
4	2	0	0	2	-9.86426767676767D-01	-3.06565554924812D-01	1.55457638634186D-01	4.87615123910166D-01
4	2	0	2	0	-5.32670454545454D 00	-4.53245381973452D 00	-3.97971554903519D 00	-3.57986204452699D 00
8 TERMS OF DEGREE 4								
5	0	1	1	3	2.32661408992737D 02	1.47710642388271D 02	9.97889756210562D 01	7.06659371054539D 01
5	0	1	3	1	3.36277666101641D 02	2.21560107771001D 02	1.54461296360288D 02	1.12383530616883D 02
5	0	3	1	1	-3.71511380034107D 01	-3.33137661325640D 01	-2.94498013792163D 01	-2.60664115460284D 01
5	1	0	0	4	-1.39596845395642D 02	-9.15805982807283D 01	-6.38649443974759D 01	-4.66395184895996D 01
5	1	0	2	2	-1.21843508026106D 02	-8.86010399802752D 01	-6.68655166619214D 01	-5.19667260381027D 01
5	1	0	4	0	1.02027893151445D 02	6.34313013182642D 01	4.20767561850510D 01	2.93413768289945D 01
5	1	2	0	2	2.22906828020464D 01	2.06545350021897D 01	1.88478728826984D 01	1.72038316203787D 01
5	1	2	2	0	-2.22906828020464D 01	-2.06545350021897D 01	-1.88478728826984D 01	-1.72038316203787D 01
5	2	1	1	1	9.82156521929249D 00	5.87153289546226D 00	4.33799228176765D 00	3.82795243544467D 00
5	3	0	0	2	1.28961421575058D 01	1.25562398697309D 01	1.16398102350218D 01	1.06270715444547D 01
5	3	0	2	0	2.65609285495649D 01	1.88863811481985D 01	1.42697962040093D 01	1.12882149234179D 01
11 TERMS OF DEGREE 5								
6	0	0	0	6	1.25966144216780D 02	7.42430559813266D 01	4.65497328553861D 01	3.06012011727347D 01
6	0	0	2	4	3.77898432650340D 02	2.22729167943980D 02	1.39649198566158D 02	9.18036035182043D 01
6	0	0	4	2	1.08614394464302D 02	6.77844673755705D 01	4.44830154558675D 01	3.03541076074316D 01
6	0	0	6	0	-2.23268709639709D 02	-1.32345783045237D 02	-8.33761756597912D 01	-5.50327433978619D 01
6	0	2	0	4	-2.68141665471460D 02	-2.04148862008798D 02	-1.54936161093628D 02	-1.19120170726736D 02
6	0	2	2	2	-8.68114731316962D 02	-4.41971509099745D 02	-2.51986706574640D 02	-1.56940291875750D 02
6	0	2	4	0	1.01098961737609D 03	6.31361063486318D 02	4.22226316718924D 02	2.96942586219398D 02
6	0	4	0	2	3.50156729625243D 01	3.31088118031441D 01	3.01078869199250D 01	2.71542374313390D 01
6	0	4	2	0	-5.12959848749384D 01	-4.81243593814135D 01	-4.32167765733213D 01	-3.84088018654117D 01
6	1	1	1	3	3.98197680448851D 02	4.17554935018652D 01	-7.40935879841476D 01	-1.07316065442592D 02
6	1	1	3	1	-3.15851994258788D 03	-1.85382713683149D 03	-1.18774556777055D 03	-8.11568872220074D 02

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1966ApJS...13..503C

TABLE 1--Continued

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6	2	0	0	4	-3.87600969606115D 02	-2.17093064994376D 02	-1.31226212938701D 02	-8.37058691306802D 01
6	2	0	2	2	1.10770552111339D 03	5.52459541469342D 02	3.03343056141584D 02	1.79566618860639D 02
6	2	0	4	0	-4.35110578897325D 02	-2.46948480606342D 02	-1.53182725875577D 02	-1.01658653356945D 02
6	2	2	0	2	3.89591491035620D 01	3.49915926029442D 01	3.01819916730163D 01	2.57492149450133D 01
6	2	2	2	0	-9.60120958937249D 00	-1.12908069005090D 01	-1.03844563247836D 01	-8.76378086463094D 00
6	3	1	1	1	7.34632822109148D 01	7.54408358868601D 01	7.18975185781283D 01	6.69737146332498D 01
6	4	0	0	2	8.46008222014377D 00	5.80246673900878D 00	3.58739286400765D 00	1.82394455802045D 00
6	4	0	2	0	-1.96575014579276D 00	1.31281893844894D 00	2.92231833997776D 00	3.76880851592480D 00
20	TERMS	OF	DEGREE	6				
7	0	1	1	5	1.17600608512709D 04	5.77460643608097D 03	3.13411439937427D 03	1.83063722046824D 03
7	0	1	3	3	2.79096405738557D 04	1.40893100912844D 04	7.83153329518173D 03	4.67037720225819D 03
7	0	1	5	1	1.98196676624488D 04	1.00870296545803D 04	5.64682137474352D 03	3.38979977414421D 03
7	0	3	1	3	-3.97333767767179D 03	-1.97904637429781D 03	-1.21352738453650D 03	-8.55741892139928D 02
7	0	3	3	1	-1.39628964960807D 04	-6.89974416842550D 03	-3.85014634683070D 03	-2.33560182873671D 03
7	0	5	1	1	9.20889050902129D 00	4.68034206560234D 01	6.14566880620670D 01	6.58356436792186D 01
7	1	0	0	6	-7.05603651076255D 03	-3.58025599037020D 03	-2.00583321559953D 03	-1.20822056550904D 03
7	1	0	2	4	-1.34674945598415D 04	-7.24266792090992D 03	-4.25085362466127D 03	-2.65931946576929D 03
7	1	0	4	2	-4.39879033597864D 03	-2.70413556992124D 03	-1.80288063173386D 03	-1.21842172443537D 03
7	1	0	6	0	6.27519161204656D 03	2.96904130214409D 03	1.55231374273173D 03	8.73895095106904D 02
7	1	2	0	4	2.38400260660307D 03	1.22700875206404D 03	7.76657526103361D 02	5.64789648812353D 02
7	1	2	2	2	1.75921428402191D 04	8.80797332056196D 03	4.76828607440247D 03	2.68077246848055D 03
7	1	2	4	0	-7.80778251014910D 03	-3.77706761354542D 03	-2.04205482824781D 03	-1.18879930186603D 03
7	1	4	0	2	-5.52533430541281D 00	-2.90181208067345D 01	-3.93322803597229D 01	-4.34515248282843D 01
7	1	4	2	0	5.52533430541280D 00	2.90181208067345D 01	3.93322803597229D 01	4.34515248282843D 01
7	2	1	1	3	-1.18668779895724D 04	-5.59093273532015D 03	-2.90952152417486D 03	-1.58545990232787D 03
7	2	1	3	1	1.44243745405857D 03	8.27541860851351D 02	3.34062845449884D 02	1.26849916177585D 01
7	2	3	1	1	-1.00327084769023D 02	-2.57765368801119D 01	9.20925466995655D 00	2.49475284509568D 01
7	3	0	0	4	3.96271066898319D 03	1.97346526667593D 03	1.13846960922621D 03	7.25327611053700D 02
7	3	0	2	2	2.34303378672399D 03	1.69714674570424D 03	1.28538151342031D 03	1.01819817149795D 03
7	3	0	4	0	-1.38945422865417D 03	-3.34075547354035D 02	-3.59663943254510D 01	4.34369495134780D 01
7	3	2	0	2	1.26983045465876D 01	-3.33636767870895D 01	-5.44076814758880D 01	-6.34238226969229D 01
7	3	2	2	0	-1.27780514996538D 02	-7.49472181256540D 01	-4.33585365151071D 01	-2.39935630320779D 01
7	4	1	1	1	-9.80335828864330D 01	-6.28795574305229D 01	-4.37881473740705D 01	-3.33153013890802D 01
7	5	0	0	2	1.68433517650070D 01	-5.54840559345103D 00	-1.61581897264742D 01	-2.09719092954105D 01
7	5	0	2	0	-1.11851757418930D 02	-8.64474593954272D 01	-6.78842465812540D 01	-5.45851750769472D 01
26	TERMS	OF	DEGREE	7				
8	0	0	0	8	6.74337471405701D 03	3.08081145460058D 03	1.55523534459048D 03	8.45161486467244D 02
8	0	0	2	6	2.69734988562280D 04	1.23232458184023D 04	6.22094137836191D 03	3.38064594586898D 03

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TABLE 1--Continued

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8	0	0	6	2	-3.635838663159 73D 03	-1.567915751203 00D 03	-7.508296676763 98D 02	-3.881105021780 93D 02
8	0	0	8	0	-1.237867474822 56D 04	-5.682497495513 40D 03	-2.880321674132 46D 03	-1.570874119993 23D 03
8	0	2	0	6	7.664270015049 50D 03	-7.496713343794 45D 02	-2.223469398078 69D 03	-2.157112721251 76D 03
8	0	2	2	4	-1.759943113270 35D 05	-6.844034685732 66D 04	-3.091958012714 16D 04	-1.562247398660 14D 04
8	0	2	4	2	-1.403856488990 55D 05	-4.726456195658 88D 04	-1.735553411632 94D 04	-6.419001264733 12D 03
8	0	2	6	0	9.058776966077 31D 04	4.119732132186 04D 04	2.127063283837 26D 04	1.202370771427 69D 04
8	0	4	0	4	5.267941369753 23D 03	3.891068303726 97D 03	2.840851866174 50D 03	2.156902483943 85D 03
8	0	4	2	2	4.080847743625 59D 04	1.508357774525 07D 04	6.327519569420 43D 03	2.730661052598 07D 03
8	0	4	4	0	-3.152814620329 50D 04	-1.484519395780 96D 04	-8.165189956516 91D 03	-5.002851754934 92D 03
8	0	6	0	2	3.870113298352 39D 01	-1.800330383458 35D 01	-4.360380146438 83D 01	-5.459308562440 55D 01
8	0	6	2	0	-6.613788499425 39D 01	2.127392522380 38D 01	5.968192159759 83D 01	7.534452777496 83D 01
8	1	1	1	5	2.387845456466 20D 05	8.207725273919 34D 04	3.103894007411 90D 04	1.207949928615 69D 04
8	1	1	3	3	-5.234964251322 00D 04	-3.707073551612 56D 04	-2.583581776421 86D 04	-1.840362878366 66D 04
8	1	1	5	1	-3.782212786569 77D 05	-1.580139326604 61D 05	-7.569499970455 11D 04	-4.000155217434 32D 04
8	1	3	1	3	-3.632711363609 92D 04	-9.053787010867 98D 03	-8.266442714514 29D 02	2.089749968182 31D 03
8	1	3	3	1	1.245098225543 45D 05	5.491093203113 30D 04	2.825190762584 62D 04	1.605631201585 50D 04
8	1	5	1	1	1.258068215733 33D 02	-4.870376403240 02D 01	-1.322057255193 43D 02	-1.715176496871 73D 02
8	2	0	0	6	-6.397109367893 66D 04	-2.619361968352 94D 04	-1.215593022179 68D 04	-6.143347485683 53D 03
8	2	0	2	4	1.246744488480 83D 05	4.349376189470 62D 04	1.716370376164 89D 04	7.363249915506 85D 03
8	2	0	4	2	1.914163245101 81D 05	7.209360632196 05D 04	3.060244461230 41D 04	1.398077327533 15D 04
8	2	0	6	0	-3.422310862332 05D 04	-1.423052218450 17D 04	-6.789440044593 58D 03	-3.583757095242 42D 03
8	2	2	0	4	2.143401683033 63D 04	1.058881058082 30D 04	5.946229899213 46D 03	3.624187478387 54D 03
8	2	2	2	2	-4.323890300883 27D 04	-1.959302359887 32D 04	-9.379908917356 11D 03	-4.276336498093 46D 03
8	2	2	4	0	-2.462547781848 66D 03	-1.690358135785 06D 03	-1.465967956034 00D 03	-1.367831845579 69D 03
8	2	4	0	2	7.836135247857 17D 01	-3.891174465370 65D 01	-8.850557222697 51D 01	-1.071784324764 49D 02
8	2	4	2	0	-1.760197593591 30D 02	-2.676577933350 91D 01	4.071385729625 4D 01	6.968178365659 44D 01
8	3	1	1	3	-1.247990610875 53D 04	2.520622492019 16D 03	5.013493355185 32D 03	4.878644629284 66D 03
8	3	1	3	1	7.036933516682 93D 04	2.933502344133 39D 04	1.554435962334 24D 04	9.905442379532 59D 03
8	3	3	1	1	3.237090013693 31D 02	-2.378871151165 08D 01	-1.935342484789 65D 02	-2.759003863382 03D 02
8	4	0	0	4	1.258899433148 14D 04	4.903708804148 54D 03	2.170956012777 08D 03	1.007117375361 80D 03
8	4	0	2	2	-2.925205163859 09D 04	-8.695360992581 61D 03	-2.859163568307 03D 03	-9.503146444803 97D 02
8	4	0	4	0	8.299568109879 78D 03	3.131863072795 47D 03	1.546054864729 49D 03	9.684130484422 58D 02
8	4	2	0	2	2.980500227317 20D 01	-3.522449436940 06D 01	-5.754009247034 08D 01	-6.165486873064 56D 01
8	4	2	2	0	-4.385750517954 48D 01	-9.665499875789 28D 00	2.553647562087 51D 00	5.258577144914 46D 00
8	5	1	1	1	1.949733298814 67D 02	2.243804799032 23D 01	-6.349494469082 05D 01	-1.063280206693 15D 02
8	6	0	0	2	-9.562332230422 75D 00	-1.406009641546 68D 01	-1.240723672309 27D 01	-8.855540636590 59D 00
8	6	0	2	0	5.934126619853 90D 01	3.290297867272 77D 01	1.688474851100 33D 01	6.882686567144 95D 00

40 TERMS OF DEGREE 8

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TABLE 1--Continued

					SA= 1.00 SB= 0.68	SA= 1.00 SB= 0.70	SA= 1.00 SB= 0.72	SA= 1.00 SB= 0.74
					A= 1.0000 B= 0.4624	A= 1.0000 B= 0.4900	A= 1.0000 B= 0.5184	A= 1.0000 B= 0.5476
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2	2	0	0	0	5.000000000000000D-01	5.000000000000000D-01	5.000000000000000D-01	5.000000000000000D-01
2 TERMS OF DEGREE 2								
3	0	1	1	1	3.461836712085960D 00	2.976190476190470D 00	2.587348898824310D 00	2.270415576867190D 00
3	1	0	0	2	-2.354048964218460D 00	-2.083333333333330D 00	-1.862891207153500D 00	-1.680107526881720D 00
3	1	0	2	0	1.914192064329890D-01	4.251700680272100D-02	-6.612113852550970D-02	-1.460429479174030D-01
3 TERMS OF DEGREE 3								
4	0	0	0	4	1.032169727502480D 00	8.134631403581830D-01	6.498734333868610D-01	5.252686423590390D-01
4	0	0	2	2	2.064339455004960D 00	1.626926280716370D 00	1.299746866773720D 00	1.050537284718080D 00
4	0	0	4	0	-1.720282879170800D 00	-1.355771900596970D 00	-1.083122388978100D 00	-8.754477372650650D-01
4	0	2	0	2	-5.829576658679420D 00	-5.189575830332130D 00	-4.697867255847940D 00	-4.319388728304040D 00
4	0	2	2	0	8.375044829330870D 00	7.315426170468180D 00	6.494637324475930D 00	5.853453307268360D 00
4	1	1	1	1	-1.931828522369400D 01	-1.750700280112040D 01	-1.611720659566640D 01	-1.505580621264710D 01
4	2	0	0	2	7.386403173765340D-01	9.378751500600230D-01	1.104327118591950D 00	1.251259570375400D 00
4	2	0	2	0	-3.284108488027980D 00	-3.063725490196080D 00	-2.901097187219950D 00	-2.785324149339720D 00
8 TERMS OF DEGREE 4								
5	0	1	1	3	5.195657438076700D 01	3.941006184411600D 01	3.070591154223560D 01	2.450168904966890D 01
5	0	1	3	1	8.460403194371080D 01	6.552744279816840D 01	5.201697927974630D 01	4.221335137683670D 01
5	0	3	1	1	-2.323741898777110D 01	-2.091779623104650D 01	-1.903801979413070D 01	-1.753302123044750D 01
5	1	0	0	4	-3.533047057892150D 01	-2.758704329088120D 01	-2.210825631040960D 01	-1.813124989675500D 01
5	1	0	2	2	-4.138638151370190D 01	-3.366455783888920D 01	-2.790741844323940D 01	-2.354418281224380D 01
5	1	0	4	0	2.130649938032680D 01	1.601032763027630D 01	1.239575392217380D 01	9.859306946293940D 00
5	1	2	0	2	1.580144491168430D 01	1.464245736173260D 01	1.370737425177410D 01	1.297443571053110D 01
5	1	2	2	0	-1.580144491168430D 01	-1.464245736173260D 01	-1.370737425177410D 01	-1.297443571053110D 01
5	2	1	1	1	3.779650300232370D 00	3.950105475090460D 00	4.231220497602940D 00	4.576656595925760D 00
5	3	0	0	2	9.677575873070220D 00	8.839946963633930D 00	8.122756581758020D 00	7.520715180025750D 00
5	3	0	2	0	9.261919444276820D 00	7.833389037433150D 00	6.800582858673810D 00	6.043074200737440D 00
11 TERMS OF DEGREE 5								
6	0	0	0	6	2.089900920686690D 01	1.473753223297210D 01	1.068627467996240D 01	7.945027346059910D 00
6	0	0	2	4	6.269702762060060D 01	4.421259669891640D 01	3.205882403988720D 01	2.383508203817970D 01
6	0	0	4	2	2.138716222779150D 01	1.548806182711170D 01	1.149212874464410D 01	8.718943155938750D 00
6	0	0	6	0	-3.771584717654530D 01	-2.667766393817770D 01	-1.939646523686870D 01	-1.445583238488360D 01
6	0	2	0	4	-9.318730429521670D 01	-7.424455602101840D 01	-6.023334887778780D 01	-4.973830778047160D 01
6	0	2	2	2	-1.049642055563520D 02	-7.445241116444380D 01	-5.548328972086720D 01	-4.313025598389170D 01
6	0	2	4	0	2.171966916860330D 02	1.640565315198230D 02	1.273603326916150D 02	1.012950324819990D 02
6	0	4	0	2	2.457582996847850D 01	2.243994806251890D 01	2.073207748659260D 01	1.941859369875880D 01
6	0	4	2	0	-3.421260791316210D 01	-3.072018598483690D 01	-2.789322657321110D 01	-2.566311535116260D 01
6	1	1	1	3	-1.107181481263510D 02	-1.036513812286300D 02	-9.357610756998000D 01	-8.339261217403610D 01
6	1	1	3	1	-5.827645195513990D 02	-4.355235236956460D 02	-3.365199696894210D 02	-2.676122698689420D 02

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1966ApJS...13..503C

TABLE 1--Continued

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6	1	3	1	1	7.99522755190312D 01	7.44241876662982D 01	7.00204378461173D 01	6.67209293938836D 01
6	2	0	0	4	-5.55431339322574D 01	-3.79665725909978D 01	-2.65459501525950D 01	-1.88830412760782D 01
6	2	0	2	2	1.13130237223562D 02	7.52305073353599D 01	5.25130891169662D 01	3.83291203014347D 01
6	2	0	4	0	-7.11882640142954D 01	-5.21047682981127D 01	-3.95909667932651D 01	-3.10733048646301D 01
6	2	2	0	2	2.19678862604863D 01	1.88314304418335D 01	1.62567973485830D 01	1.41504435217807D 01
6	2	2	2	0	-7.06876716783739D 00	-5.50934024211728D 00	-4.13740136330512D 00	-2.94621489355102D 00
6	3	1	1	1	6.21323330895099D 01	5.78928190107465D 01	5.44256268356494D 01	5.17779192381840D 01
6	4	0	0	2	4.21446505026489D-01	-7.15528105963883D-01	-1.66821415612538D 00	-2.50369329817368D 00
6	4	0	2	0	4.24895840877419D 00	4.55506929504310D 00	4.78956458098452D 00	5.01347207450085D 00
20	TERMS	OF	DEGREE	6				
7	0	1	1	5	1.13189875196542D 03	7.32866822978445D 02	4.93225051708086D 02	3.43261838674091D 02
7	0	1	3	3	2.94092691497402D 03	1.93527451861056D 03	1.32153906609007D 03	9.31931789040833D 02
7	0	1	5	1	2.14805638687255D 03	1.42220283987262D 03	9.77014399751683D 02	6.93063879158917D 02
7	0	3	1	3	-6.68056194915369D 02	-5.74773111258007D 02	-5.75009855864312D 02	-9.60340020181625D 02
7	0	3	3	1	-1.49495133640582D 03	-9.73973012429108D 02	-5.82889585101272D 02	6.32827223879470D 01
7	0	5	1	1	6.56943606668234D 01	6.37392161892890D 01	6.12831386543606D 01	5.89849366946182D 01
7	1	0	0	6	-7.69691151336488D 02	-5.13006776084912D 02	-3.55122037229822D 02	-2.54013760618827D 02
7	1	0	2	4	-1.74797587523126D 03	-1.19600360449020D 03	-8.46532449391748D 02	-6.17160499838486D 02
7	1	0	4	2	-8.49903379942715D 02	-6.09746057964051D 02	-4.48671554650638D 02	-3.37923106330962D 02
7	1	0	6	0	5.21246285607792D 02	3.25923491911554D 02	2.12091059597389D 02	1.42907327254009D 02
7	1	2	0	4	4.54278212542450D 02	4.02341177880605D 02	4.14007096222304D 02	7.10651614934403D 02
7	1	2	2	2	1.47427240379210D 03	6.55136542969363D 02	-1.42949518541009D 02	-2.41428758491613D 03
7	1	2	4	0	-7.20610092898157D 02	-4.31004080252728D 02	-2.04454987590732D 02	2.34288055700482D 02
7	1	4	0	2	-4.46721652534399D 01	-4.46174513325023D 01	-4.41238598311396D 01	-4.36488531540175D 01
7	1	4	2	0	4.46721652534399D 01	4.46174513325023D 01	4.41238598311396D 01	4.36488531540175D 01
7	2	1	1	3	-8.38610544392676D 02	-3.33222992098328D 02	1.71208804100887D 02	1.66668289040069D 03
7	2	1	3	1	-2.10534547412464D 02	-4.14066197372973D 02	-7.31328033228665D 02	-2.10459047761432D 03
7	2	3	1	1	3.11999040739141D 01	3.27694712862365D 01	3.20803843496365D 01	3.03793533962785D 01
7	3	0	0	4	4.92937198423973D 02	3.45979483410013D 02	2.34914617830657D 02	6.26526303240979D 01
7	3	0	2	2	8.49725933689468D 02	7.63873748717121D 02	7.93554100797692D 02	1.38937544792462D 03
7	3	0	4	0	5.34012890724954D 01	3.83285097357387D 01	5.09124369777095D 00	-1.18261324509668D 02
7	3	2	0	2	-6.66348652613404D 01	-6.71361450767916D 01	-6.65311053520989D 01	-6.56920447097720D 01
7	3	2	2	0	-1.17497185808471D 01	-3.74403365301622D 00	1.69736660569402D 00	5.58309930987684D 00
7	4	1	1	1	-2.75667369048827D 01	-2.45121790219776D 01	-2.30808468489434D 01	-2.27095092154405D 01
7	5	0	0	2	-2.29048698854721D 01	-2.34227529676398D 01	-2.32888001945917D 01	-2.29158105200236D 01
7	5	0	2	0	-4.49973948805263D 01	-3.80109293875671D 01	-3.28811546571088D 01	-2.91158320930069D 01
26	TERMS	OF	DEGREE	7				
8	0	0	0	8	4.86498014092947D 02	2.93510343389015D 02	1.84260683084610D 02	1.19762456623255D 02
8	0	0	2	6	1.94599205637179D 03	1.17404137355606D 03	7.37042732338439D 02	4.79049826493022D 02

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1966ApJS...13..503C

TABLE 1--Continued

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8	0	0	4	4	2.01903296551332D 03	1.22690256836730D 03	7.75203954777427D 02	5.06801844579022D 02
8	0	0	6	2	-2.12834900882052D 02	-1.22431581540637D 02	-7.33050425985791D 01	-4.54311304241910D 01
8	0	0	8	0	-9.07151861921193D 02	-5.48903390965559D 02	-3.45526406314083D 02	-2.25148142739862D 02
8	0	2	0	6	-1.80848300967273D 03	-1.49090112006665D 03	-1.30626815909330D 03	-1.62367825686187D 03
8	0	2	2	4	-8.60291764832501D 03	-5.05864863696983D 03	-3.09615660879187D 03	-1.70387501266423D 03
8	0	2	4	2	-2.00171815067826D 03	1.19425742562260D 01	1.30655964526230D 03	4.31651003389510D 03
8	0	2	6	0	7.27647732571038D 03	4.64499286906799D 03	3.09091769218064D 03	2.08199457551077D 03
8	0	4	0	4	1.72904678943672D 03	1.49292250349065D 03	1.47726999468247D 03	2.38930259596856D 03
8	0	4	2	2	9.75987412663278D 02	-1.16503201543628D 02	-1.24845967438016D 03	-5.07002580588082D 03
8	0	4	4	0	-3.31120864484305D 03	-2.31771530977208D 03	-1.68148418192446D 03	-1.16144899285220D 03
8	0	6	0	2	-5.87091160966703D 01	-5.97097987115393D 01	-5.94946572693485D 01	-5.90766092523026D 01
8	0	6	2	0	8.04494316330153D 01	8.08302858578857D 01	7.93740504508241D 01	7.75677176742821D 01
8	1	1	1	5	4.32135732225729D 03	8.20323387477820D 02	-1.18461293062276D 03	-4.68739644172364D 03
8	1	1	3	3	-1.36209880126085D 04	-1.06786363429145D 04	-9.35221947912789D 03	-1.25591635863458D 04
8	1	1	5	1	-2.27112854341636D 04	-1.35291503700303D 04	-8.09811492355846D 03	-3.20231238570906D 03
8	1	3	1	3	3.37566438604584D 03	4.34328749193490D 03	6.05231951579296D 03	1.45759738767705D 04
8	1	3	3	1	9.62346749671134D 03	5.67609822000393D 03	2.45381285760391D 03	-4.60432602461545D 03
8	1	5	1	1	-1.89255624912372D 02	-1.96756118397195D 02	-1.99970939117049D 02	-2.02233603851345D 02
8	2	0	0	6	-3.27774449924021D 03	-1.77801430568389D 03	-8.79807504069104D 02	1.10658426575878D 02
8	2	0	2	4	3.33157705069290D 03	1.53361798524773D 03	6.48138383538705D 02	-5.19803808362515D 01
8	2	0	4	2	6.55107637695466D 03	2.84434055756209D 03	5.52108080908605D 02	-3.06913306135358D 03
8	2	0	6	0	-2.04585334252630D 03	-1.24232793933669D 03	-7.86971929201789D 02	-4.67279061032992D 02
8	2	2	0	4	2.31036768761787D 03	1.46569438480408D 03	7.75704963679485D 02	-6.14505142467985D 02
8	2	2	2	2	-1.28025889947497D 03	1.01296771265826D 03	3.95557318222504D 03	1.52027703786878D 04
8	2	2	4	0	-1.34519920031222D 03	-1.43951827104203D 03	-1.84025780762186D 03	-4.27143455505156D 03
8	2	4	0	2	-1.11780435819804D 02	-1.10264754695600D 02	-1.06494433725908D 02	-1.02403394331910D 02
8	2	4	2	0	8.03920285070403D 01	8.25701930070831D 01	8.10171429170562D 01	7.81673456862023D 01
8	3	1	1	3	4.26929860414037D 03	3.70582235515684D 03	3.36496153781908D 03	3.90872202889850D 03
8	3	1	3	1	7.30452669472820D 03	6.17761127073883D 03	6.32197335355583D 03	1.14047799064623D 04
8	3	3	1	1	-3.14951744459692D 02	-3.32930884670858D 02	-3.41579603777890D 02	-3.47490989235020D 02
8	4	0	0	4	4.29403081105070D 02	8.43282802495954D 01	-2.17840594967692D 02	-1.03036614658021D 03
8	4	0	2	2	-2.66166303810980D 02	-8.64978508276318D 00	8.84848638690964D 01	1.22643582288900D 02
8	4	0	4	0	7.36679897745826D 02	6.60904848913479D 02	7.24055869002485D 02	1.39108980842460D 03
8	4	2	0	2	-5.82386392616567D 01	-5.20018498781995D 01	-4.50101050458880D 01	-3.81175613234313D 01
8	4	2	2	0	3.90912601219106D 00	9.00522985228179D-01	-2.74523045021151D 00	-6.64507745489700D 00
8	5	1	1	1	-1.27481279699313D 02	-1.37844172259370D 02	-1.43196595759067D 02	-1.46792022052831D 02
8	6	0	0	2	-4.96500138796337D 00	-1.25212986247334D 00	2.18022314245876D 00	5.39849561203873D 00
8	6	0	2	0	3.68269964064353D-01	-4.10917956757542D 00	-7.41309106294405D 00	-1.00898665492110D 01

40 TERMS OF DEGREE 8

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1966ApJS...13..503C

TABLE 1--Continued

					SA= 1.00 SB= 0.76	SA= 1.00 SB= 0.78	SA= 1.00 SB= 0.80	SA= 1.00 SB= 0.82
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2	2	0	0	0	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01
2 TERMS OF DEGREE 2								
3	0	1	1	1	2.00822569243622D 00	1.78857600732601D 00	1.60256410256410D 00	1.44355136733185D 00
3	1	0	0	2	-1.52625152625153D 00	-1.39508928571429D 00	-1.28205128205128D 00	-1.18371212121212D 00
3	1	0	2	0	-2.05050412806645D-01	-2.48566204095050D-01	-2.80448717948718D-01	-3.03497872839039D-01
3 TERMS OF DEGREE 3								
4	0	0	0	4	4.28887134298676D-01	3.53341679493108D-01	2.93438251201923D-01	2.45449392578752D-01
4	0	0	2	2	8.57774268597352D-01	7.06683358986215D-01	5.86876502403846D-01	4.90898785157504D-01
4	0	0	4	0	-7.14811890497793D-01	-5.88902799155179D-01	-4.89063752003205D-01	-4.09082320964587D-01
4	0	2	0	2	-4.03116476090853D 00	-3.81842544189940D 00	-3.67254273504273D 00	-3.59017789583673D 00
4	0	2	2	0	5.35236587435341D 00	4.96494852351864D 00	4.67414529914530D 00	4.47039214420981D 00
4	1	1	1	1	-1.42629665655981D 01	-1.37020633860521D 01	-1.33547008547009D 01	-1.32193348656763D 01
4	2	0	0	2	1.38876253401877D 00	1.52537927866093D 00	1.66933760683761D 00	1.82974939909056D 00
4	2	0	2	0	-2.70996364746365D 00	-2.67190236028017D 00	-2.67094017094017D 00	-2.70996364746365D 00
8 TERMS OF DEGREE 4								
5	0	1	1	3	1.99839263416459D 01	1.66411289277474D 01	1.41425142129394D 01	1.22704619894173D 01
5	0	1	3	1	3.49649383245994D 01	2.95335266346305D 01	2.54340294107046D 01	2.23437972323581D 01
5	0	3	1	1	-1.63503921370107D 01	-1.54521474560032D 01	-1.48150721677059D 01	-1.44317686180204D 01
5	1	0	0	4	-1.51877840196509D 01	-1.29800805636429D 01	-1.13140113703515D 01	-1.00617788313221D 01
5	1	0	2	2	-2.01983805866862D 01	-1.76158587540955D 01	-1.56229404276279D 01	-1.41017078034146D 01
5	1	0	4	0	8.04023029306185D 00	6.71482098040750D 00	5.74051946873461D 00	5.02508998214038D 00
5	1	2	0	2	1.24262980241282D 01	1.20526750156825D 01	1.18520577341647D 01	1.18340502667767D 01
5	1	2	2	0	-1.24262980241282D 01	-1.20526750156825D 01	-1.18520577341647D 01	-1.18340502667767D 01
5	2	1	1	1	4.97071310933903D 00	5.41478630686862D 00	5.92204096071152D 00	6.51672096374354D 00
5	3	0	0	2	7.02495136171955D 00	6.62727223733581D 00	6.32216089992009D 00	6.10812978109458D 00
5	3	0	2	0	5.48642281862969D 00	5.08389304988824D 00	4.80675647899728D 00	4.63929693896746D 00
11 TERMS OF DEGREE 5								
6	0	0	0	6	6.04532852663501D 00	4.70250864859871D 00	3.73820401825522D 00	3.03791422197946D 00
6	0	0	2	4	1.81359855799050D 01	1.41075259457961D 01	1.12146120547656D 01	9.11374266593837D 00
6	0	0	4	2	6.75499530842898D 00	5.34076860005353D 00	4.30908753672884D 00	3.55009824450964D 00
6	0	0	6	0	-1.10235247043018D 01	-8.59216755776864D 00	-6.84294393655412D 00	-5.57068240406906D 00
6	0	2	0	4	-4.17897544621028D 01	-3.57192651105737D 01	-3.10625697060416D 01	-2.74960188005901D 01
6	0	2	2	2	-3.47851962889987D 01	-2.89928780344444D 01	-2.49070297525186D 01	-2.20221283045117D 01
6	0	2	4	0	8.23641641296450D 01	6.83792141509286D 01	5.79273059851144D 01	5.00764112495097D 01
6	0	4	0	2	1.84701850381815D 01	1.78719636537743D 01	1.76303309777012D 01	1.77819174391459D 01
6	0	4	2	0	-2.39668808734641D 01	-2.27610965351373D 01	-2.20294901930446D 01	-2.17917253811330D 01
6	1	1	1	3	-7.41673552055147D 01	-6.62152174112568D 01	-5.95489754553032D 01	-5.40706512465365D 01
6	1	1	3	1	-2.18338160479894D 02	-1.82378016898421D 02	-1.55772975970274D 02	-1.35977707756130D 02

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1966ApJS...13..503C

TABLE 1--Continued

					SA= 1.00 SB= 0.76 A= 1.0000 B= 0.5776	SA= 1.00 SB= 0.78 A= 1.0000 B= 0.6084	SA= 1.00 SB= 0.80 A= 1.0000 B= 0.6400	SA= 1.00 SB= 0.82 A= 1.0000 B= 0.6724
6	1	3	1	1	6.45043401857014D 01	6.33875738947020D 01	6.34557138731934D 01	6.49007742252574D 01
6	2	0	0	4	-1.36061594840073D 01	-9.89533032018361D 00	-7.24297952392029D 00	-5.32705178951021D 00
6	2	0	2	2	2.91719280896515D 01	2.31028098793265D 01	1.90085023572919D 01	1.62318992678098D 01
6	2	0	4	0	-2.50971607837525D 01	-2.08012626684652D 01	-1.76555809567436D 01	-1.53232643138421D 01
6	2	2	0	2	1.24287208057965D 01	1.10227734886148D 01	9.87837640612515D 00	8.95451744593622D 00
6	2	2	2	0	-1.90843861187395D 00	-9.90593794926418D-01	-1.57854627179465D-01	6.25584496943622D-01
6	3	1	1	1	4.99679781079735D 01	4.90316616074725D 01	4.90549408673479D 01	5.02115660800128D 01
6	4	0	0	2	-3.27955543761670D 00	-4.04978726914975D 00	-4.87179997040701D 00	-5.81611232343452D 00
6	4	0	2	0	5.26949054159179D 00	5.59486025261661D 00	6.03078525943516D 00	6.63255295112838D 00
20	TERMS	OF	DEGREE	6				
7	0	1	1	5	2.46144226528764D 02	1.81405184461068D 02	1.37184224459066D 02	1.06361503758529D 02
7	0	1	3	3	6.76367985099118D 02	5.04050911838165D 02	3.85147953855678D 02	3.01532396528104D 02
7	0	1	5	1	5.05975095296752D 02	3.79308808410225D 02	2.91586874308985D 02	2.29716213793657D 02
7	0	3	1	3	4.35652404018370D 02	2.21834413779230D 01	-3.99680875798803D 01	-5.69228739370874D 01
7	0	3	3	1	-1.15230064194848D 03	-6.10818951763705D 02	-4.56400407087523D 02	-3.72714031615435D 02
7	0	5	1	1	5.71976748855177D 01	5.61446188802892D 01	5.60201219954870D 01	5.70649917541714D 01
7	1	0	0	6	-1.87069612161861D 02	-1.41496043879633D 02	-1.09747379567252D 02	-8.72164330819942D 01
7	1	0	2	4	-4.62069579350679D 02	-3.54578581921240D 02	-2.78547661085984D 02	-2.23902822135453D 02
7	1	0	4	2	-2.60139000530343D 02	-2.04516612805195D 02	-1.64157940005693D 02	-1.34563722485365D 02
7	1	0	6	0	9.93465982924118D 01	7.10771291039313D 01	5.22466682437055D 01	3.94190167578253D 01
7	1	2	0	4	-3.31095827053961D 02	-1.73030842747801D 01	3.19744700639041D 01	4.66767566284116D 01
7	1	2	2	2	3.49262307611895D 03	1.36372419525861D 03	8.89247998207711D 02	6.71064466573174D 02
7	1	2	4	0	-7.09772858563225D 02	-3.26793177279456D 02	-2.27436011963490D 02	-1.75990018826899D 02
7	1	4	0	2	-4.34702329129935D 01	-4.37928027266256D 01	-4.48160975963896D 01	-4.67932932384206D 01
7	1	4	2	0	4.34702329129935D 01	4.37928027266256D 01	4.48160975963896D 01	4.67932932384206D 01
7	2	1	1	3	-2.28423451282854D 03	-8.74246803187730D 02	-5.64878529303535D 02	-4.24980371646550D 02
7	2	1	3	1	1.92882257631624D 03	5.75333513394362D 02	3.04238652067468D 02	1.88756334028559D 02
7	2	3	1	1	2.83136830855665D 01	2.62192271169968D 01	2.42687213902410D 01	2.25509481350387D 01
7	3	0	0	4	3.57942191880589D 02	2.15768779312290D 02	1.71950587856879D 02	1.47279139335665D 02
7	3	0	2	2	-6.92675998750626D 02	-6.38190027864667D 01	3.61207169235499D 01	6.71136843568668D 01
7	3	0	4	0	2.09180571446182D 02	8.86887055040924D 01	5.94815444542053D 01	4.41974503214404D 01
7	3	2	0	2	-6.51331102656682D 01	-6.52074026859199D 01	-6.62264558325837D 01	-6.85549834748046D 01
7	3	2	2	0	8.55035571680728D 00	1.10299891007046D 01	1.33466942715893D 01	1.57901263810995D 01
7	4	1	1	1	-2.31180347667928D 01	-2.41999233418755D 01	-2.59756895066448D 01	-2.85884271663932D 01
7	5	0	0	2	-2.25393028217148D 01	-2.23077730330354D 01	-2.23344720119703D 01	-2.27334913346334D 01
7	5	0	2	0	-2.63927348441314D 01	-2.45076342510366D 01	-2.33449030461014D 01	-2.28658983711476D 01
26	TERMS	OF	DEGREE	7				
8	0	0	0	8	8.03065631862638D 01	5.54201451529045D 01	3.93004148165496D 01	2.86154224865143D 01
8	0	0	2	6	3.21226252745055D 02	2.21680580611618D 02	1.57201659266198D 02	1.14461689946057D 02

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1966ApJS...13..503C

TABLE 1--Continued

					SA= 1.00 SB= 0.76 A= 1.0000 B= 0.5776	SA= 1.00 SB= 0.78 A= 1.0000 B= 0.6084	SA= 1.00 SB= 0.80 A= 1.0000 B= 0.6400	SA= 1.00 SB= 0.82 A= 1.0000 B= 0.6724
8	0	0	4	4	3.41658465736917D 02	2.36954323699699D 02	1.68818004300144D 02	1.23466348525185D C2
8	0	0	6	2	-2.90253219909526D 01	-1.90573842827222D 01	-1.28283466956321D 01	-8.83584765938782D 00
8	0	0	8	0	-1.51334564642871D 02	-1.04676686659864D 02	-7.43952884095001D 01	-5.42876584010542D 01
8	0	2	0	6	1.59734105964516D 02	-2.57323742376939D 02	-2.74784815545387D 02	-2.54490414074893D 02
8	0	2	2	4	-1.94349194432807D 03	-1.22944650205005D 03	-9.00590152741985D 02	-6.96354755196210D 02
8	0	2	4	2	-3.65734552756563D 03	-9.30798838197468D 02	-3.99754661759262D 02	-1.91843438183972D C2
8	0	2	6	0	1.65517635676807D 03	1.19540813759375D 03	9.13522824192511D 02	7.23248355322344D 02
8	0	4	0	4	-9.69311563367836D 02	1.88679067603116D 01	1.67423504552417D 02	2.10790103949073D 02
8	0	4	2	2	5.59294191624656D 03	1.92987951429959D 03	1.17901831758165D 03	8.63124346232808D C2
8	0	4	4	0	-1.25027454879230D 03	-9.43154360350325D 02	-7.88791140986997D 02	-6.89219122224837D 02
8	0	6	0	2	-5.90514508030044D 01	-5.98451074380808D 01	-6.18690254787011D 01	-6.56578418212506D 01
8	0	6	2	0	7.62345369392159D 01	7.59099605214620D 01	7.70621968322974D 01	8.02659862827362D 01
8	1	1	1	5	3.68249527857686D 03	7.13661428873997D 02	1.21977129769319D 02	-1.10071038726691D C2
8	1	1	3	3	2.94737733754511D 03	-1.04116651683111D 03	-1.41532316061403D 03	-1.40082831877209D C3
8	1	1	5	1	-7.12182838141203D 03	-4.03462850148881D 03	-2.88514010671611D 03	-2.21009304858292D C3
8	1	3	1	3	-1.14479788653330D 04	-2.95174417321518D 03	-1.35067409356291D 03	-7.24132386868844D C2
8	1	3	3	1	1.18069741138288D 04	5.49184159137116D 03	3.97290375619929D 03	3.25182451848302D C3
8	1	5	1	1	-2.05634701368175D 02	-2.11777906016887D 02	-2.22289955697598D 02	-2.39315078090538D C2
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8	2	0	2	4	6.47095856185682D 02	2.45944671860207D 02	1.34390387189472D 02	8.30545539308952D C1
8	2	0	4	2	4.51747983244334D 03	1.53841180166696D 03	8.38382934777781D 02	5.14647393610005D C2
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8	2	2	0	4	2.41160884209087D 03	1.18891604107454D 03	8.75116646529999D 02	7.18474486514372D 02
8	2	2	2	2	-1.68939229088619D 04	-5.96059668311197D 03	-3.74032615113808D 03	-2.81674097755668D C3
8	2	2	4	0	3.35176592379855D 03	8.94650158912471D 02	4.42029424376410D 02	2.70156208258962D C2
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8	2	4	2	0	7.53023257641654D 01	7.31562176020447D 01	7.22454557234944D 01	7.30873234723423D 01
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8	3	1	3	1	-6.32549806934353D 03	-9.12352696232983D 02	-1.34347845942821D 01	2.91935600015152D C2
8	3	3	1	1	-3.54780784870592D 02	-3.66554726270670D 02	-3.85889256771645D 02	-4.16766857277708D C2
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8	4	0	4	0	-8.02325516252752D 02	-1.08451981605306D 02	1.77514928275022D 01	6.80879596247665D C1
8	4	2	0	2	-3.16048167636942D 01	-2.54637673448759D 01	-1.95132428027354D 01	-1.34171933724510D C1
8	4	2	2	0	-1.07334464438567D 01	-1.51291508906057D 01	-2.01003464997352D 01	-2.61004047329589D 01
8	5	1	1	1	-1.50652198798883D 02	-1.56277848725960D 02	-1.65119225047363D 02	-1.79016947403251D 02
8	6	0	0	2	8.54767292662707D 00	1.18281978860829D 01	1.55114824054033D 01	1.99932516876273D C1
8	6	0	2	0	-1.25209383963402D 01	-1.50173230492453D 01	-1.78928082117915D 01	-2.15444725331733D 01

40 TERMS OF DEGREE 8

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TABLE 1--Continued

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2	2	0	0	0	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01
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3	0	1	1	1	1.30649274635227D 00	1.18749050007600D 00	1.08348935580057D 00	9.92063492063492D-01
3	1	0	0	2	-1.09745390693591D 00	-1.02124183006536D 00	-9.53470633104500D-01	-8.92857142857143D-01
3	1	0	2	0	-3.19779653154794D-01	-3.30840376532802D-01	-3.37851680945086D-01	-3.41710758377425D-01
3 TERMS OF DEGREE 3								
4	0	0	0	4	2.06652384614454D-01	1.75027410137040D-01	1.49055466851614D-01	1.27580181592527D-01
4	0	0	2	2	4.13304769228909D-01	3.50054820274080D-01	2.98110933703228D-01	2.55160363185055D-01
4	0	0	4	0	-3.44420641024090D-01	-2.91712350228400D-01	-2.48425778086024D-01	-2.12633635987545D-01
4	0	2	0	2	-3.57349772593441D 00	-3.63176617146274D 00	-3.78540164200150D 00	-4.07558247470528D 00
4	0	2	2	0	4.35117197971553D 00	4.32216762499530D 00	4.40102059416091D 00	4.62672885918500D 00
4	1	1	1	1	-1.33134451054919D 01	-1.36807661299078D 01	-1.44081031356459D 01	-1.56641604010025D 01
4	2	0	0	2	2.01814921837218D 00	2.25096326439762D 00	2.55416373768267D 00	2.97328970574585D 00
4	2	0	2	0	-2.79582347215330D 00	-2.94136471793018D 00	-3.16978268984209D 00	-3.52443609022556D 00
8 TERMS OF DEGREE 4								
5	0	1	1	3	1.08820477758702D 01	9.88774935755095D 00	9.24227512850588D 00	8.94804745407948D 00
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5	0	3	1	1	-1.43139079200882D 01	-1.44999067861997D 01	-1.50718902651770D 01	-1.61945294416229D 01
5	1	0	0	4	-9.14092013173100D 00	-8.50346444749381D 00	-8.13320211308517D 00	-8.05324270867154D 00
5	1	0	2	2	-1.29759296520565D 01	-1.22048431956924D 01	-1.17850261410255D 01	-1.17653735309657D 01
5	1	0	4	0	4.50929670772626D 00	4.15752457931633D 00	3.95405436973449D 00	3.90540087919944D 00
5	1	2	0	2	1.20236826528741D 01	1.24699198361318D 01	1.32632634333558D 01	1.45750764974606D 01
5	1	2	2	0	-1.20236826528741D 01	-1.24699198361319D 01	-1.32632634333558D 01	-1.45750764974606D 01
5	2	1	1	1	7.23725289558763D 00	8.14436977945806D 00	9.33869379494405D 00	1.10001934767842D 01
5	3	0	0	2	5.98935762448485D 00	5.97856055397654D 00	6.10282544238692D 00	6.41665962193844D 00
5	3	0	2	0	4.57686864971506D 00	4.62668450796751D 00	4.81240420582963D 00	5.18642215658193D 00
11 TERMS OF DEGREE 5								
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6	0	0	2	4	7.58080069238083D 00	6.46932420095574D 00	5.68697294903046D 00	5.18499869509876D 00
6	0	0	4	2	2.99079970712080D 00	2.58297246559323D 00	2.29641723709150D 00	2.11639531578481D 00
6	0	0	6	0	-4.64125364402727D 00	-3.96690073362837D 00	-3.49233568690121D 00	-3.18861170054297D 00
6	0	2	0	4	-2.47955938967303D 01	-2.28110885877561D 01	-2.14506976566738D 01	-2.06717721513091D 01
6	0	2	2	2	-2.00362755718615D 01	-1.87818624727062D 01	-1.81974657096711D 01	-1.83367382336850D 01
6	0	2	4	0	4.42065536075933D 01	3.99124077728874D 01	3.69505026798910D 01	3.52197884745300D 01
6	0	4	0	2	1.84099334226715D 01	1.96776883813876D 01	2.19029669347817D 01	2.57409085559111D 01
6	0	4	2	0	-2.21195897406535D 01	-2.31708878430609D 01	-2.52654221862769D 01	-2.90723020821445D 01
6	1	1	1	3	-4.96522525322866D 01	-4.61653412888264D 01	-4.34789161024706D 01	-4.14122509240796D 01
6	1	1	3	1	-1.21336511041049D 02	-1.10788288302929D 02	-1.03705304439248D 02	-9.98176286562640D 01

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1966ApJS...13..503C

TABLE 1--Continued

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6	2	0	2	2	1.43810672352525D 01	1.32292335256582D 01	1.26664627463586D 01	1.26897752560292D 01
6	2	0	4	0	-1.35842424321567D 01	-1.22904510358878D 01	-1.13361627971930D 01	-1.06294360951958D 01
6	2	2	0	2	8.22223530130091D 00	7.66456978717308D 00	7.27873333421560D 00	7.08311649499712D 00
6	2	2	2	0	1.39881863426864D 00	2.20938801761956D 00	3.12350419140417D 00	4.24801805433917D 00
6	3	1	1	1	5.28255016878067D 01	5.74939796056623D 01	6.53582455966099D 01	7.87721322907310D 01
6	4	0	0	2	-6.98223770378894D 00	-8.52892072163085D 00	-1.07394473641464D 01	-1.41821715179159D 01
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7	0	1	3	3	2.41876167079551D 02	1.98943147427562D 02	1.68046782478463D 02	1.46143385528594D 02
7	0	1	5	1	1.85494114789993D 02	1.53677999607823D 02	1.30888952799045D 02	1.14981278144999D 02
7	0	3	1	3	-6.15138767326621D 01	-6.21264453110755D 01	-6.17320515720581D 01	-6.16563361261844D 01
7	0	3	3	1	-3.20634280786092D 02	-2.88127525761305D 02	-2.70728964949328D 02	-2.68060014355164D 02
7	0	5	1	1	5.96513872133667D 01	6.44217615730904D 01	7.25754418175665D 01	8.65617618779041D 01
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7	1	0	2	4	-1.84197707671918D 02	-1.55236183819926D 02	-1.34273800350673D 02	-1.19547364948542D 02
7	1	0	4	2	-1.12755176758165D 02	-9.67528338382906D 01	-8.52702995125541D 01	-7.75527138519950D 01
7	1	0	6	0	3.05130337263342D 01	2.42333669183058D 01	1.97522612113747D 01	1.65207096526473D 01
7	1	2	0	4	5.16716564554361D 01	5.34287429675249D 01	5.43242053834111D 01	5.54907025135659D 01
7	1	2	2	2	5.48618716272060D 02	4.76659378251762D 02	4.38616691528898D 02	4.30174333411277D 02
7	1	2	4	0	-1.43938296196748D 02	-1.22473891499985D 02	-1.07738275383317D 02	-9.76870890572058D 01
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7	1	4	2	0	5.01071652592281D 01	5.54027149528577D 01	6.38663887994585D 01	7.79055856901136D 01
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7	2	1	3	1	1.24661759116297D 02	8.25978424439136D 01	5.00651558599018D 01	1.89412438994890D 01
7	2	3	1	1	2.11152555820290D 01	1.99996682105838D 01	1.92542899505473D 01	1.89723314394200D 01
7	3	0	0	4	1.31951582206253D 02	1.23087241864251D 02	1.19953121612465D 02	1.23358880727801D 02
7	3	0	2	2	7.89695964968830D 01	8.47870411992855D 01	8.96924276916919D 01	9.68380310404876D 01
7	3	0	4	0	3.39236115659675D 01	2.59196650498138D 01	1.87359195982891D 01	1.10003201656999D 01
7	3	2	0	2	-7.27218252419389D 01	-7.96035248241777D 01	-9.08031101181053D 01	-1.09565813685311D 02
7	3	2	2	0	1.86824610241720D 01	2.24720898582465D 01	2.79119246233605D 01	3.64815328345701D 01
7	4	1	1	1	-3.23417339039364D 01	-3.78050536057058D 01	-4.60651857031249D 01	-5.93621867932672D 01
7	5	0	0	2	-2.36553188009142D 01	-2.53389407094897D 01	-2.82137713634921D 01	-3.31411318513362D 01
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8	0	0	2	6	8.55699194153801D 01	6.57313196625605D 01	5.19698939761220D 01	4.24108932675778D 01

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TABLE 1--Continued

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8	0	0	6	2	-6.21602836284471D 00	-4.45701393843635D 00	-3.24569744381252D 00	-2.38124198304737D 00
8	0	0	8	0	-4.06743173109039D 01	-3.13156036031174D 01	-2.48199222887926D 01	-2.03108931680868D 01
8	0	2	0	6	-2.31987703761103D 02	-2.14974560103032D 02	-2.06150834597080D 02	-2.08289043100598D 02
8	0	2	2	4	-5.62367080548480D 02	-4.74118534575992D 02	-4.19134284939154D 02	-3.92449238067708D 02
8	0	2	4	2	-9.07332181163921D 01	-3.51755310358052D 01	-8.51034082087466D-01	2.45078585907032D 01
8	0	2	6	0	5.92801931952850D 02	5.04523960698893D 02	4.48693171435308D 02	4.21782361771048D 02
8	0	4	0	4	2.27956847005171D 02	2.39855060353518D 02	2.55408845797951D 02	2.81438041540643D 02
8	0	4	2	2	7.03173678123683D 02	6.24219143037909D 02	6.02816112398212D 02	6.40834946513660D 02
8	0	4	4	0	-6.26307434184431D 02	-5.93533687341689D 02	-5.90772647938337D 02	-6.25498654423316D 02
8	0	6	0	2	-7.20572779992777D 01	-8.25773945971956D 01	-1.00198602652957D 02	-1.31521483156129D 02
8	0	6	2	0	8.64153536975780D 01	9.71028980399718D 01	1.15468988336664D 02	1.48448746407247D 02
8	1	1	1	5	-2.24441331634515D 02	-2.93784850660939D 02	-3.50800065179671D 02	-4.18352204221355D 02
8	1	1	3	3	-1.32315118622138D 03	-1.25796374838535D 03	-1.23320911595570D 03	-1.27268874750293D 03
8	1	1	5	1	-1.77691255374111D 03	-1.49512924814883D 03	-1.32180270466705D 03	-1.24069574011830D 03
8	1	3	1	3	-4.15396773310414D 02	-2.48555518409104D 02	-1.61917220612066D 02	-1.40325954178274D 02
8	1	3	3	1	2.86302501878373D 03	2.67989522277719D 03	2.67188464120864D 03	2.87096619620467D 03
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8	2	0	0	6	-1.37722344474607D 02	-8.86470743188285D 01	-5.17988059180246D 01	-2.00305512009886D 01
8	2	0	2	4	5.70599592136243D 01	4.40846792680719D 01	3.88341903367343D 01	3.93398822138835D 01
8	2	0	4	2	3.32248339850829D 02	2.18108729540215D 02	1.39996603588731D 02	7.97194223347430D 01
8	2	0	6	0	-1.70333483797055D 02	-1.51482194916330D 02	-1.42512625901048D 02	-1.43686352483785D 02
8	2	2	0	4	6.30380338800716D 02	5.86588993622949D 02	5.82061268665210D 02	6.26022762461509D 02
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8	2	2	4	0	1.89536004233827D 02	1.50501527640027D 02	1.36786311384896D 02	1.46422469000311D 02
8	2	4	0	2	-1.04353545072532D 02	-1.14840639357138D 02	-1.33582825496509D 02	-1.67788563522053D 02
8	2	4	2	0	7.64142159610437D 01	8.35081246004775D 01	9.69218895731230D 01	1.22390617855513D 02
8	3	1	1	3	1.44972916211258D 03	1.49835831822732D 03	1.62337642810881D 03	1.87790081567660D 03
8	3	1	3	1	4.26859125452478D 02	5.01309842792359D 02	5.54993899176105D 02	6.03124942002606D 02
8	3	3	1	1	-4.65418131978843D 02	-5.42907781464792D 02	-6.71087110653652D 02	-8.98602515012796D 02
8	4	0	0	4	1.07470453567161D 01	-2.88525416073991D 01	-6.61121798513331D 01	-1.09516302296480D 02
8	4	0	2	2	1.36403273341368D 02	1.47737195558516D 02	1.70556040501384D 02	2.15065968423417D 02
8	4	0	4	0	9.69662850422478D 01	1.19818322178286D 02	1.44024056680048D 02	1.75871968460550D 02
8	4	2	0	2	-6.61573735697479D 00	1.88453365779244D 00	1.40563388472949D 01	3.43970023558262D 01
8	4	2	2	0	-3.38921962676258D 01	-4.48447624903735D 01	-6.16572122425823D 01	-9.03351321553773D 01
8	5	1	1	1	-2.00827107810528D 02	-2.35620000469787D 02	-2.93452814483004D 02	-3.96866106196702D 02
8	6	0	0	2	2.59105493078157D 01	3.44003779532670D 01	4.77251924066056D 01	7.09955833814474D 01
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40 TERMS OF DEGREE 8

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1966ApJS...13..503C

TABLE 1--Continued

					SA= 1.00 SB= 0.92	SA= 1.00 SB= 0.94	SA= 1.00 SB= 0.96	SA= 1.00 SB= 0.98
					A= 1.0000 B= 0.8464	A= 1.0000 B= 0.8836	A= 1.0000 B= 0.9216	A= 1.0000 B= 0.9604
2	0	2	0	0	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01
2	2	0	0	0	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01	5.00000000000000D-01
2 TERMS OF DEGREE 2								
3	0	1	1	1	9.11264689586796D-01	8.39512142703632D-01	7.75511216994242D-01	7.18192682478397D-01
3	1	0	0	2	-8.38363514419852D-01	-7.89141414141414D-01	-7.44490768314473D-01	-7.03828828828829D-01
3	1	0	2	0	-3.43110965731376D-01	-3.42592402065014D-01	-3.40578676129971D-01	-3.37403990829647D-01
3 TERMS OF DEGREE 3								
4	0	0	0	4	1.09711546407242D-01	9.47577407925815D-02	8.21761255258181D-02	7.15375438617728D-02
4	0	0	2	2	2.19423092814483D-01	1.89515481585163D-01	1.64352251051636D-01	1.43075087723546D-01
4	0	0	4	0	-1.82852577345403D-01	-1.57929567987636D-01	-1.36960209209697D-01	-1.19229239769621D-01
4	0	2	0	2	-4.58882439644166D 00	-5.53122307226592D 00	-7.52595388090714D 00	-1.36965162930906D 01
4	0	2	2	0	5.08407694513013D 00	5.97777208434232D 00	7.92986597309164D 00	1.40629411310898D 01
4	1	1	1	1	-1.77981384684921D 01	-2.16369108944235D 01	-2.96751741196777D 01	-5.44085365513937D 01
4	2	0	0	2	3.59831929906471D 00	4.63812504811313D 00	6.71812969653814D 00	1.29636666170923D 01
4	2	0	2	0	-4.09357184775318D 00	-5.08467406018952D 00	-7.12204178872264D 00	-1.33300914550915D 01
8 TERMS OF DEGREE 4								
5	0	1	1	3	9.08186920755182D 00	9.88983427482740D 00	1.21812155768149D 01	2.01041998343284D 01
5	0	1	3	1	1.74646533615898D 01	1.92093537218589D 01	2.38939180764624D 01	3.98210230909893D 01
5	0	3	1	1	-1.82135885148913D 01	-2.19530300670569D 01	-2.99050900559121D 01	-5.45632966216932D 01
5	1	0	0	4	-8.35531967094768D 00	-9.29644421833775D 00	-1.16939669537423D 01	-1.97021158376418D 01
5	1	0	2	2	-1.22933264285626D 01	-1.37613004488999D 01	-1.74002180060438D 01	-2.94449358158773D 01
5	1	0	4	0	4.05406676106971D 00	4.52629887169743D 00	5.72925082152098D 00	9.73901093593795D 00
5	1	2	0	2	1.67565014337000D 01	2.06358482630335D 01	2.87088864536757D 01	5.34720306892593D 01
5	1	2	2	0	-1.67565014337000D 01	-2.06358482630335D 01	-2.87088864536757D 01	-5.34720306892593D 01
5	2	1	1	1	1.34872850753268D 01	1.76344093621430D 01	2.59424974924123D 01	5.09123092859404D 01
5	3	0	0	2	7.03490019936647D 00	8.23178390855088D 00	1.08376584382119D 01	1.90166660927657D 01
5	3	0	2	0	5.86230158939592D 00	7.11354296692678D 00	9.77010136711985D 00	1.79959438061416D 01
11 TERMS OF DEGREE 5								
6	0	0	0	6	1.65410097441354D 00	1.70068722866236D 00	1.98028061348210D 00	3.09361598103190D 00
6	0	0	2	4	4.96230292324062D 00	5.10206168598707D 00	5.94084184044631D 00	9.28084794309570D 00
6	0	0	4	2	2.04654295019884D 00	2.12529043984357D 00	2.49879371060449D 00	3.94075797358673D 00
6	0	0	6	0	-3.05587014910143D 00	-3.14615765382849D 00	-3.66820772369227D 00	-5.73793716436838D 00
6	0	2	0	4	-2.04659646957798D 01	-2.07666983574528D 01	-2.06350310213119D 01	-5.14875068900712D 00
6	0	2	2	2	-1.94395226072913D 01	-2.21824596030364D 01	-2.87143640452561D 01	-4.99437604337107D 01
6	0	2	4	0	3.47741372093773D 01	3.58543806109375D 01	3.86119059891764D 01	3.38118197336735D 01
6	0	4	0	2	3.27044853123816D 01	4.70028660394260D 01	8.47565818264458D 01	2.68268044556151D 02
6	0	4	2	0	-3.61423988550770D 01	-5.07835789549084D 01	-8.94244176208679D 01	-2.75926179457340D 02
6	1	1	1	3	-3.95460284830537D 01	-3.63797617703142D 01	-2.41069401549460D 01	7.77066677491654D 01
6	1	1	3	1	-9.91808764609656D 01	-1.01980535665579D 02	-1.06053999606240D 02	-5.99928182322714D 01

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TABLE 1--Continued

					SA= 1.00 SB= 0.92 A= 1.0000 B= 0.8464	SA= 1.00 SB= 0.94 A= 1.0000 B= 0.8836	SA= 1.00 SB= 0.96 A= 1.0000 B= 0.9216	SA= 1.00 SB= 0.98 A= 1.0000 B= 0.9604
6	1	3	1	1	1.26678266868124D 02	1.83838516589349D 02	3.34427518938842D 02	1.06662067906644D 03
6	2	0	0	4	-2.27479159357511D 00	-3.66821032540518D 00	-9.06369974693779D 00	-4.32250178860981D 01
6	2	0	2	2	1.34443978875024D 01	1.53970434067987D 01	2.00719674121521D 01	3.52541817909631D 01
6	2	0	4	0	-1.00350060134261D 01	-9.15766652933361D 00	-6.03237634322530D 00	1.94584750556809D 01
6	2	2	0	2	7.13696786542625D 00	7.60162928185810D 00	8.98795456224727D 00	1.38919563697452D 01
6	2	2	2	0	5.78458386971702D 00	8.19123219255676D 00	1.28275093238169D 01	2.64686071153187D 01
6	3	1	1	1	1.03222944365637D 02	1.54198325342568D 02	2.92096750483555D 02	9.85652871750411D 02
6	4	0	0	2	-2.01727932713834D 01	-3.24357918145745D 01	-6.56092428349296D 01	-2.34538975393978D 02
6	4	0	2	0	1.93035229023644D 01	3.09522175719187D 01	6.30052573339970D 01	2.28743589133479D 02
20	TERMS	OF	DEGREE	6				
7	0	1	1	5	4.43260619745707D 01	4.07357959656193D 01	3.72867310405530D 01	1.32365298023321D 01
7	0	1	3	3	1.31244660721870D 02	1.21708620614532D 02	1.12713630964570D 02	4.32211583193779D 01
7	0	1	5	1	1.04676131592169D 02	9.92365726641149D 01	9.67740670571885D 01	6.35729015912178D 01
7	0	3	1	3	-6.26696984444470D 01	-6.52441535957278D 01	-6.79864464228382D 01	-3.58369502415297D 01
7	0	3	3	1	-2.84509746859978D 02	-3.35574112507162D 02	-4.80187853407474D 02	-1.12822549010777D 03
7	0	5	1	1	1.12055388337881D 02	1.64981460447645D 02	3.07055070970097D 02	1.01360513827331D 03
7	1	0	0	6	-4.07799770166050D 01	-3.82916482076821D 01	-3.57952617989308D 01	-1.29717992062855D 01
7	1	0	2	4	-1.09975348509856D 02	-1.04755319530395D 02	-1.00858064890529D 02	-5.14891130322766D 01
7	1	0	4	2	-7.33403419979433D 01	-7.29843020695804D 01	-7.75861066122214D 01	-8.04308473365166D 01
7	1	0	6	0	1.41325297004828D 01	1.21271483112000D 01	9.10990561366760D 00	-8.11050923876042D 00
7	1	2	0	4	5.76561225688912D 01	6.13295043799841D 01	6.52669885659247D 01	3.51202112366990D 01
7	1	2	2	2	4.57720474494628D 02	5.49551552308488D 02	8.19272943494026D 02	2.09430433737688D 03
7	1	2	4	0	-9.09436795162981D 01	-8.55456913116967D 01	-7.28535266806027D 01	4.35525951102103D 01
7	1	4	0	2	-1.03090957270851D 02	-1.55082572820786D 02	-2.94772868131293D 02	-9.93333035507842D 02
7	1	4	2	0	1.03090957270851D 02	1.55082572820786D 02	2.94772868131293D 02	9.93333035507842D 02
7	2	1	1	3	-3.20037663475926D 02	-4.10776292148551D 02	-6.77189781419814D 02	-2.01632275303299D 03
7	2	1	3	1	-2.05662909316524D 01	-9.08444862832107D 01	-2.78395014642095D 02	-1.28925771500245D 03
7	2	3	1	1	1.93544022655083D 01	2.08923162598088D 01	2.50975584747312D 01	3.95942908712655D 01
7	3	0	0	4	1.36582298511878D 02	1.69596241126535D 02	2.60212055764957D 02	6.82078906815243D 02
7	3	0	2	2	1.09981517126987D 02	1.37300205195354D 02	2.07060074969845D 02	5.15450944157586D 02
7	3	0	4	0	3.77859290550798D-01	-1.93486418495963D 01	-7.32859705786055D 01	-3.69684337465738D 02
7	3	2	0	2	-1.43389959722557D 02	-2.13323022855789D 02	-4.01061709553639D 02	-1.33737818236173D 03
7	3	2	2	0	5.15941141659455D 01	8.29410961966761D 01	1.68820376957220D 02	6.11785883677081D 02
7	4	1	1	1	-8.29344460563476D 01	-1.31661738421353D 02	-2.64082685338171D 02	-9.39570139888985D 02
7	5	0	0	2	-4.20960458146548D 01	-6.05768023191011D 01	-1.09720808236526D 02	-3.50795525526453D 02
7	5	0	2	0	-3.95018334365276D 01	-5.71922770009559D 01	-1.04882704170189D 02	-3.41748688539413D 02
26	TERMS	OF	DEGREE	7				
8	0	0	0	8	8.96492115426322D 00	7.87266387116779D 00	7.02100701906670D 00	3.46502961602574D 00
8	0	0	2	6	3.58596846170529D 01	3.14906554846712D 01	2.80840280762668D 01	1.38601184641030D 01

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TABLE 1--Continued

					SA= 1.00 SB= 0.92 A= 1.0000 B= 0.8464	SA= 1.00 SB= 0.94 A= 1.0000 B= 0.8836	SA= 1.00 SB= 0.96 A= 1.0000 B= 0.9216	SA= 1.00 SB= 0.98 A= 1.0000 B= 0.9604
8	0	0	4	4	3.955851849390630D 01	3.497479231626830D 01	3.158992426666000D 01	1.727428247968110 C1
8	0	0	6	2	-1.718635732141370D 00	-1.105769958180160D 00	-1.730569007061170D-01	3.862567818802480D 00
8	0	0	8	0	-1.723294400872830D 01	-1.521120114491810D 01	-1.371599640986050D 01	-7.477494726127760D 00
8	0	2	0	6	-2.276868825155990D 02	-2.828917738555510D 02	-4.482581897182320D 02	-1.343046076763680D 03
8	0	2	2	4	-3.970105725970320D 02	-4.523202552114770D 02	-6.433834993258570D 02	-1.655610880958910D 03
8	0	2	4	2	4.987101355750580D 01	8.855188758583180D 01	1.858235709468980D 02	7.459804120050290D 02
8	0	2	6	0	4.280580307934230D 02	4.896700108508840D 02	7.012696748193770D 02	1.821788491197100D 03
8	0	4	0	4	3.273249293825940D 02	4.102867436225930D 02	5.504167498316450D 02	2.886726924291490D 01
8	0	4	2	2	7.720035973912550D 02	1.121475654851620D 03	2.280000957273900D 03	1.063751693340650D 04
8	0	4	4	0	-7.204128682822550D 02	-9.417789182018520D 02	-1.535078593467020D 03	-4.114983268881510D 03
8	0	6	0	2	-1.936418233392840D 02	-3.425516824811630D 02	-8.513249653711760D 02	-4.924810627793690D 03
8	0	6	2	0	2.139170645190170D 02	3.700352072563530D 02	8.981475041706360D 02	5.065333225264920D 03
8	1	1	1	5	-5.263321379075670D 02	-7.451475247477310D 02	-1.346670854071370D 03	-4.652113604690960D 03
8	1	1	3	3	-1.422396288876040D 03	-1.812162212115730D 03	-2.962845102898040D 03	-9.302294042174790D 03
8	1	1	5	1	-1.262694649225830D 03	-1.455919599634180D 03	-2.119420568764110D 03	-5.725758495882670D 03
8	1	3	1	3	-2.159308790719600D 02	-5.656960751000920D 02	-2.264001518612380D 03	-2.073637349404460D 04
8	1	3	3	1	3.409653066055390D 03	4.715887474381390D 03	8.606423260522400D 03	3.170327292276910D 04
8	1	5	1	1	-7.499083536592740D 02	-1.339663352706530D 03	-3.358987141520280D 03	-1.958068195199490D 04
8	2	0	0	6	1.442590092188200D 01	6.732756277588200D 01	1.981438202360260D 02	9.364895895348930D 02
8	2	0	2	4	4.631064069351570D 01	6.564334090195500D 01	1.260824598826940D 02	5.169813976541790D 02
8	2	0	4	2	2.240504872464910D 01	-5.556361577200530D 01	-2.352621466021100D 02	-1.213251593833910D 03
8	2	0	6	0	-1.591122752754340D 02	-2.033680712720760D 02	-3.378073823174960D 02	-1.094051870941600D 03
8	2	2	0	4	7.539780631382910D 02	1.086450642542230D 03	2.187554228597230D 03	1.021857575056760D 04
8	2	2	2	2	-3.011342266874650D 03	-4.644831089020470D 03	-1.024125405781390D 04	-5.363295950134060D 04
8	2	2	4	0	1.932657283690320D 02	3.388786293341360D 02	9.214235942284560D 02	6.387305779660320D 03
8	2	4	0	2	-2.359676273345870D 02	-3.980132716714200D 02	-9.416610681837930D 02	-5.179897726903590D 03
8	2	4	2	0	1.749940157239130D 02	3.049516540314100D 02	7.622796523216560D 02	4.567174561895520D 03
8	3	1	1	3	2.388786272875600D 03	3.532765136417060D 03	6.909173300532050D 03	2.756051004559560D 04
8	3	1	3	1	6.393941100370320D 02	5.772484877310400D 02	-2.925132191081340D 02	-1.457362736828420D 04
8	3	3	1	1	-1.352496546057500D 03	-2.453321660687800D 03	-6.279427202363820D 03	-3.765108363097580D 04
8	4	0	0	4	-1.724318111922430D 02	-2.869744857868940D 02	-5.644244778290780D 02	-1.643046185887100D 03
8	4	0	2	2	3.079157862583130D 02	5.374302153998150D 02	1.340286201889110D 03	7.934580571875190D 03
8	4	0	4	0	2.243922769145680D 02	3.064806228813840D 02	4.439151116697640D 02	-3.760703727301510D 01
8	4	2	0	2	7.510657825863700D 01	1.785173185902120D 02	5.654014603835240D 02	4.044617762685490D 03
8	4	2	2	0	-1.465988867527390D 02	-2.826918704109720D 02	-7.578545212845830D 02	-4.677542096505420D 03
8	5	1	1	1	-6.052233950124350D 02	-1.117026832534800D 03	-2.925307933163040D 03	-1.807982622205880D 04
8	6	0	0	2	1.178364466547860D 02	2.345066432938550D 02	6.565164227672610D 02	4.301244203831430D 03
8	6	0	2	0	-1.116185038135630D 02	-2.225429341768910D 02	-6.289720662140830D 02	-4.192637301537060D 03

40 TERMS OF DEGREE 8

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TABLE 2

COEFFICIENTS OF THE THIRD INTEGRAL RESONANT CASES

```
 N/M=2/1                SA=1.00 SB=0.50
2  0  2  0  0  5.00000000000000D-01
2  2  0  0  0  5.00000000000000D-01
 2 TERMS OF DEGREE   2
1  2  1.00000000000000D 00  COS  1

 N/M=2/1                SA=1.00 SB=0.50
3  0  1  1  1  2.00000000000000D 00
3  1  0  0  2-10.00000000000000D-01
3  1  0  2  0 10.00000000000000D-01
 3 TERMS OF DEGREE   3
4  0  0  0  4  1.50000000000000D 00
4  0  0  2  2  3.00000000000000D 00
4  0  0  4  0 -2.50000000000000D 00
4  0  2  0  2 -3.00000000000000D 00
4  0  2  2  0  5.00000000000000D 00
4  1  1  1  1 -8.00000000000000D 00
4  2  0  0  2-10.00000000000000D-01
4  2  0  2  0-10.00000000000000D-01
 8 TERMS OF DEGREE   4
3  2  1.00000000000000D 00  COS  1
1  4  0.80000000000000D 01  COS  1

 N/M=2/2                SA=1.00 SB=1.00
2  0  2  0  0  5.00000000000000D-01
2  2  0  0  0  5.00000000000000D-01
 2 TERMS OF DEGREE   2
3  0  1  1  1  6.66666666666667D-01
3  1  0  0  2 -6.66666666666667D-01
3  1  0  2  0 -3.33333333333333D-01
 3 TERMS OF DEGREE   3
2  2 -0.50000000000000D-00  SIN  2

 N/M=2/2                SA=1.00 SB=1.00
4  0  2  0  2 10.00000000000000D-01
4  0  2  2  0-10.00000000000000D-01
4  1  1  1  1  4.00000000000000D 00
4  2  0  0  2-10.00000000000000D-01
4  2  0  2  0 10.00000000000000D-01
 5 TERMS OF DEGREE   4
5  0  1  1  3 -1.33333333333333D 00
5  0  1  3  1 -2.66666666666666D 00
5  0  3  1  1  4.00000000000000D 00
5  1  0  0  4  1.33333333333333D 00
5  1  0  2  2  2.00000000000000D 00
5  1  0  4  0 -6.66666666666667D-01
5  1  2  0  2 -4.00000000000000D 00
5  1  2  2  0  4.00000000000000D 00
5  2  1  1  1 -4.00000000000000D 00
5  3  0  0  2 -1.33333333333333D 00
5  3  0  2  0 -1.33333333333333D 00
11 TERMS OF DEGREE   5
4  2 -0.66666666666667D 00  SIN  2
2  4 -0.16666666666667D-00  SIN  2

 N/M=2/3                SA=1.00 SB=1.50
2  0  2  0  0  5.00000000000000D-01
2  2  0  0  0  5.00000000000000D-01
 2 TERMS OF DEGREE   2
3  0  1  1  1  1.66666666666667D-01
3  1  0  0  2 -2.50000000000000D-01
3  1  0  2  0 -1.94444444444444D-01
 3 TERMS OF DEGREE   3
4  0  0  0  4  4.62962962962963D-03
4  0  0  2  2  9.25925925925926D-03
4  0  0  4  0 -7.71604938271605D-03
4  0  2  0  2  9.44444444444444D-02
4  0  2  2  0 -3.88888888888889D-02
4  1  1  1  1  4.00000000000000D-01
4  2  0  0  2 -2.05555555555555D-01
4  2  0  2  0  1.50000000000000D-01
 8 TERMS OF DEGREE   4
3  2 -0.83333333333333D-01  COS  3

 N/M=2/3                SA=1.00 SB=1.50
5  0  3  1  1  2.00000000000000D 00
5  1  2  0  2 -3.00000000000000D 00
5  1  2  2  0  3.00000000000000D 00
5  2  1  1  1 -6.00000000000000D 00
5  3  0  0  2 10.00000000000000D-01
5  3  0  2  0-10.00000000000000D-01
 6 TERMS OF DEGREE   5
6  0  2  0  4  7.50000000000000D-01
6  0  2  2  2  8.33333333333333D-01
6  0  2  4  0 -5.83333333333333D-01
6  0  4  0  2 -1.50000000000000D 00
6  0  4  2  0  1.16666666666667D 00
6  1  1  1  3  2.00000000000000D 00
6  1  1  3  1  3.33333333333333D 00
6  1  3  1  1 -8.00000000000000D 00
6  2  0  0  4 -7.50000000000000D-01
6  2  0  2  2 -8.33333333333333D-01
6  2  0  4  0  5.83333333333333D-01
6  2  2  0  2  3.00000000000000D 00
6  2  2  2  0 -5.00000000000000D 00
6  3  1  1  1  2.66666666666666D 00
6  4  0  0  2  5.00000000000000D-01
6  4  0  2  0  5.00000000000000D-01
16 TERMS OF DEGREE   6
5  2  0.16666666666667D-00  COS  3
3  4  0.11111111111111D-00  COS  3

 N/M=2/4                SA=1.00 SB=2.00
2  0  2  0  0  5.00000000000000D-01
2  2  0  0  0  5.00000000000000D-01
 2 TERMS OF DEGREE   2
3  0  1  1  1  6.66666666666667D-02
3  1  0  0  2 -1.33333333333333D-01
3  1  0  2  0 -1.16666666666667D-01
 3 TERMS OF DEGREE   3
4  0  0  0  4  7.81250000000000D-04
4  0  0  2  2  1.56250000000000D-03
```


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TABLE 2--Continued

```
4  0  0  4  0 -1.30208333333333D-03
4  0  2  0  2  1.66666666666667D-02
4  1  1  1  1  6.66666666666667D-02
4  2  0  0  2 -5.00000000000000D-02
4  2  0  2  0  3.33333333333333D-02
 7 TERMS OF DEGREE   4
5  0  1  1  3 -1.02513227513228D-04
5  0  1  3  1 -1.42526455026455D-03
5  0  3  1  1 -1.49206349206349D-02
5  1  0  0  4  2.05026455026455D-04
5  1  0  2  2 -3.96825396825398D-04
5  1  0  4  0 -2.85052910052910D-03
5  1  2  0  2  2.98412698412698D-02
5  1  2  2  0 -2.98412698412698D-02
5  2  1  1  1  8.03174603174602D-02
5  3  0  0  2 -3.36507936507936D-02
5  3  0  2  0  1.14285714285714D-02
11 TERMS OF DEGREE   5
4  2  0.69444444444444D-02  SIN  4


 N/M=2/4                SA=1.00 SB=2.00
6  0  4  0  2 10.00000000000000D-01
6  0  4  2  0-10.00000000000000D-01
6  1  3  1  1  8.00000000000000D 00
6  2  2  0  2 -6.00000000000000D 00
6  2  2  2  0  6.00000000000000D 00
6  3  1  1  1 -8.00000000000000D 00
6  4  0  0  2 10.00000000000000D-01
6  4  0  2  0-10.00000000000000D-01
 8 TERMS OF DEGREE   6
7  0  3  1  3 -8.00000000000000D-01
7  0  3  3  1 -1.20000000000000D 00
7  0  5  1  1  2.00000000000000D 00
7  1  2  0  4  1.60000000000000D 00
7  1  2  2  2  1.40000000000000D 00
7  1  2  4  0 -1.40000000000000D 00
7  1  4  0  2 -4.00000000000000D 00
7  1  4  2  0  4.00000000000000D 00
7  2  1  1  3  2.40000000000000D 00
7  2  1  3  1  3.60000000000000D 00
7  2  3  1  1 -1.20000000000000D 01
7  3  0  0  4 -5.33333333333333D-01
7  3  0  2  2 -4.66666666666666D-01
7  3  0  4  0  4.66666666666666D-01
7  3  2  0  2  2.66666666666667D 00
7  3  2  2  0 -5.33333333333333D 00
7  4  1  1  1  2.00000000000000D 00
7  5  0  0  2  2.66666666666666D-01
7  5  0  2  0  2.66666666666666D-01
19 TERMS OF DEGREE   7
6  2 -0.66666666666666D-01  SIN  4
4  4 -0.54166666666667D-01  SIN  4


 N/M=2/5                SA=1.00 SB=2.50
2  0  2  0  0  5.00000000000000D-01
2  2  0  0  0  5.00000000000000D-01
 2 TERMS OF DEGREE   2
3  0  1  1  1  3.33333333333333D-02
3  1  0  0  2 -8.33333333333333D-02
3  1  0  2  0 -7.66666666666666D-02
 3 TERMS OF DEGREE   3
4  0  0  0  4  2.00000000000000D-04
4  0  0  2  2  4.00000000000000D-04
4  0  0  4  0 -3.33333333333333D-04
4  0  2  0  2  5.23809523809524D-03
4  0  2  2  0  1.42857142857143D-03
4  1  1  1  1  1.90476190476190D-02
4  2  0  0  2 -1.85714285714285D-02
4  2  0  2  0  1.19047619047619D-02
 8 TERMS OF DEGREE   4
5  0  1  1  3  8.20394420394419D-05
5  0  1  3  1 -7.18807118807118D-05
5  0  3  1  1 -1.34126984126984D-03
5  1  0  0  4 -2.05098605098605D-04
5  1  0  2  2 -5.21789321789321D-04
5  1  0  4  0 -6.36844636844636D-04
5  1  2  0  2  3.35317460317460D-03
5  1  2  2  0 -3.35317460317460D-03
5  2  1  1  1  1.05634920634921D-02
5  3  0  0  2 -6.56746031746031D-03
5  3  0  2  0  1.48809523809523D-03
11 TERMS OF DEGREE   5
6  0  0  0  6 -2.08305274971944D-08
6  0  0  2  4 -6.24915824915832D-08
6  0  0  4  2 -1.37512265512265D-06
6  0  0  6  0  3.08353375020041D-07
6  0  2  0  4 -1.17688013926109D-04
6  0  2  2  2 -2.03010101010101D-04
6  0  2  4  0  8.55381479190995D-06
6  0  4  0  2 -1.17076089695137D-04
6  0  4  2  0  7.41679264298311D-04
6  1  1  1  3 -1.61829634210586D-04
6  1  1  3  1 -4.56779129160081D-04
6  1  3  1  1 -4.29377676996724D-03
6  2  0  0  4  8.45990288371241D-05
6  2  0  2  2  2.68095238095238D-04
6  2  0  4  0  2.84012460202940D-06
6  2  2  0  2  5.13306878306878D-03
6  2  2  2  0 -3.34735449735449D-03
6  3  1  1  1  8.05190224237842D-03
6  4  0  0  2 -2.46590450995213D-03
6  4  0  2  0  1.24606324011086D-03
20 TERMS OF DEGREE   6
5  2  0.34722222222222D-03  COS  5


 N/M=2/5                SA=1.00 SB=2.50
7  0  5  1  1  2.00000000000000D 00
7  1  4  0  2 -5.00000000000000D 00
7  1  4  2  0  5.00000000000000D 00
7  2  3  1  1 -2.00000000000000D 01
7  3  2  0  2 10.00000000000000D 00
7  3  2  2  0-10.00000000000000D 00
7  4  1  1  1 10.00000000000000D 00
7  5  0  0  2-10.00000000000000D-01
7  5  0  2  0 10.00000000000000D-01
 9 TERMS OF DEGREE   7
8  0  4  0  4  4.16666666666666D-01
```


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TABLE 2--Continued

```
8  0  4  2  2  3.00000000000000D-01
8  0  4  4  0 -3.83333333333333D-01
8  0  6  0  2 -8.33333333333333D-01
8  0  6  2  0  7.66666666666665D-01
8  1  3  1  3  2.66666666666666D 00
8  1  3  3  1  3.73333333333333D 00
8  1  5  1  1 -7.99999999999999D 00
8  2  2  0  4 -2.50000000000000D 00
8  2  2  2  2 -1.80000000000000D 00
8  2  2  4  0  2.30000000000000D 00
8  2  4  0  2  7.50000000000000D 00
8  2  4  2  0 -8.49999999999999D 00
8  3  1  1  3 -2.66666666666666D 00
8  3  1  3  1 -3.73333333333333D 00
8  3  3  1  1  1.60000000000000D 01
8  4  0  0  4  4.16666666666667D-01
8  4  0  2  2  3.00000000000000D-01
8  4  0  4  0 -3.83333333333333D-01
8  4  2  0  2 -2.50000000000000D 00
8  4  2  2  0  5.49999999999999D 00
8  5  1  1  1 -1.60000000000000D 00
8  6  0  0  2 -1.66666666666667D-01
8  6  0  2  0 -1.66666666666666D-01
24 TERMS OF DEGREE   8
7  2  0.33333333333333D-01  COS  5
5  4  0.29333333333333D-01  COS  5


 N/M=2/6              SA=1.00 SB=3.00
2  0  2  0  0  5.00000000000000D-01
2  2  0  0  0  5.00000000000000D-01
 2 TERMS OF DEGREE   2
3  0  1  1  1  1.90476190476190D-02
3  1  0  0  2 -5.71428571428571D-02
3  1  0  2  0 -5.39682539682540D-02
 3 TERMS OF DEGREE   3
4  0  0  0  4  6.61375661375661D-05
4  0  0  2  2  1.32275132275132D-04
4  0  0  4  0 -1.10229276895943D-04
4  0  2  0  2  2.18253968253968D-03
4  0  2  2  0  9.92063492063492D-04
4  1  1  1  1  7.14285714285714D-03
4  2  0  0  2 -8.53174603174603D-03
4  2  0  2  0  5.35714285714286D-03
 8 TERMS OF DEGREE   4
5  0  1  1  3  3.52909876719400D-05
5  0  1  3  1  7.54095992191230D-06
5  0  3  1  1 -2.34315948601662D-04
5  1  0  0  4 -1.05872963015820D-04
5  1  0  2  2 -2.35258568591902D-04
5  1  0  4  0 -1.97835674026150D-04
5  1  2  0  2  7.02947845804988D-04
5  1  2  2  0 -7.02947845804988D-04
5  2  1  1  1  2.41118669690098D-03
5  3  0  0  2 -1.94255479969765D-03
5  3  0  2  0  3.55253212396069D-04
11 TERMS OF DEGREE   5
6  0  0  0  6  6.90080055159420D-08
6  0  0  2  4  2.07024016547826D-07
6  0  0  4  2 -1.19744387821989D-07
6  0  0  6  0 -8.64639312611094D-08
6  0  2  0  4 -1.08538764292732D-05
6  0  2  2  2 -2.13597396137078D-05
6  0  2  4  0 -9.22657834033503D-07
6  0  4  0  2  3.65331317712270D-05
6  0  4  2  0  8.97581254724111D-05
6  1  1  1  3 -2.08807946903185D-06
6  1  1  3  1 -3.89812274732909D-05
6  1  3  1  1 -3.19349962207104D-04
6  2  0  0  4 -7.72175722572547D-06
6  2  0  2  2  3.12631225329638D-05
6  2  0  4  0  1.61971638492803D-05
6  2  2  0  2  5.52091206853111D-04
6  2  2  2  0 -2.21403376165281D-04
6  3  1  1  1  9.15217939027462D-04
6  4  0  0  2 -4.10367850844041D-04
6  4  0  2  0  1.73847316704459D-04
20 TERMS OF DEGREE   6
7  0  1  1  5 -1.51106607620837D-07
7  0  1  3  3 -1.27044030160833D-07
7  0  1  5  1  1.56780073666106D-07
7  0  3  1  3  1.00109471625962D-05
7  0  3  3  1  1.30913058842272D-05
7  0  5  1  1  3.10203499923832D-05
7  1  0  0  6  4.53319822862512D-07
7  1  0  2  4  1.28876969697343D-06
7  1  0  4  2  1.25151142660710D-06
7  1  0  6  0  6.75375295227985D-07
7  1  2  0  4 -3.00328414877886D-05
7  1  2  2  2 -4.39601759485579D-05
7  1  2  4  0 -6.18582557278789D-07
7  1  4  0  2 -9.30610499771495D-05
7  1  4  2  0  9.30610499771495D-05
7  2  1  1  3 -1.88282650981328D-05
7  2  1  3  1 -4.10672535653374D-05
7  2  3  1  1 -5.05170846062757D-04
7  3  0  0  4 -1.19362922705965D-06
7  3  0  2  2 -2.09341053681901D-06
7  3  0  4  0 -1.64168968564749D-05
7  3  2  0  2  3.81089446093225D-04
7  3  2  2  0 -3.10122787824979D-04
7  4  1  1  1  4.73909814045868D-04
7  5  0  0  2 -1.31910109990231D-04
7  5  0  2  0  3.82677147605340D-05
26 TERMS OF DEGREE   7
6  2 -0.11574074074074D-04  SIN  6


 N/M=2/6              SA=1.00 SB=3.00
8  0  6  0  2 10.00000000000000D-01
8  0  6  2  0-10.00000000000000D-01
8  1  5  1  1  1.20000000000000D 01
8  2  4  0  2 -1.50000000000000D 01
8  2  4  2  0  1.50000000000000D 01
8  3  3  1  1 -4.00000000000000D 01
8  4  2  0  2  1.50000000000000D 01
8  4  2  2  0 -1.50000000000000D 01
8  5  1  1  1  1.20000000000000D 01
8  6  0  0  2-10.00000000000000D-01
8  6  0  2  0 10.00000000000000D-01
```


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TABLE 2--Continued

```
11 TERMS OF DEGREE   8
9  0  5  1  3 -5.71428571428571D-01
9  0  5  3  1 -7.61904761904761D-01
9  0  7  1  1  1.33333333333333D 00
9  1  4  0  4  1.71428571428571D 00
9  1  4  2  2  1.04761904761905D 00
9  1  4  4  0 -1.61904761904762D 00
9  1  6  0  2 -4.00000000000000D 00
9  1  6  2  0  4.00000000000000D 00
9  2  3  1  3  5.71428571428571D 00
9  2  3  3  1  7.61904761904761D 00
9  2  5  1  1 -2.00000000000000D 01
9  3  2  0  4 -3.42857142857143D 00
9  3  2  2  2 -2.09523809523809D 00
9  3  2  4  0  3.23809523809524D 00
9  3  4  0  2  1.20000000000000D 01
9  3  4  2  0 -1.46666666666667D 01
9  4  1  1  3 -2.85714285714285D 00
9  4  1  3  1 -3.80952380952380D 00
9  4  3  1  1  2.00000000000000D 01
9  5  0  0  4  3.42857142857143D-01
9  5  0  2  2  2.09523809523809D-01
9  5  0  4  0 -3.23809523809523D-01
9  5  2  0  2 -2.40000000000000D 00
9  5  2  2  0  5.59999999999998D 00
9  6  1  1  1 -1.33333333333333D 00
9  7  0  0  2 -1.14285714285713D-01
9  7  0  2  0 -1.14285714285713D-01
27 TERMS OF DEGREE   9
8  2 -0.19047619047619D-01  SIN  6
6  4 -0.17460317460317D-01  SIN  6


 N/M=2/7                SA=1.00 SB=3.50
2  0  2  0  0  5.00000000000000D-01
2  2  0  0  0  5.00000000000000D-01
 2 TERMS OF DEGREE   2
3  0  1  1  1  1.19047619047619D-02
3  1  0  0  2 -4.16666666666667D-02
3  1  0  2  0 -3.99659863945578D-02
 3 TERMS OF DEGREE   3
4  0  0  0  4  2.60308204914619D-05
4  0  0  2  2  5.20616409829237D-05
4  0  0  4  0 -4.33847008191031D-05
4  0  2  0  2  1.07709750566893D-03
4  0  2  2  0  6.23582766439909D-04
4  1  1  1  1  3.17460317460317D-03
4  2  0  0  2 -4.47845804988662D-03
4  2  0  2  0  2.77777777777778D-03
 8 TERMS OF DEGREE   4
5  0  1  1  3  1.42306056508472D-05
5  0  1  3  1  7.58570104675894D-06
5  0  3  1  1 -5.87139617751861D-05
5  1  0  0  4 -4.98071197779652D-05
5  1  0  2  2 -1.06081155643838D-04
5  1  0  4  0 -7.52594775918390D-05
5  1  2  0  2  2.05498866213152D-04
5  1  2  2  0 -2.05498866213152D-04
5  2  1  1  1  7.34936831875607D-04
5  3  0  0  2 -7.20427059712773D-04
5  3  0  2  0  1.15740740740741D-04
11 TERMS OF DEGREE   5
6  0  0  0  6  2.30444431091311D-08
6  0  0  2  4  6.91333293273932D-08
6  0  0  4  2 -1.38439630973718D-08
6  0  0  6  0 -3.41023163551353D-08
6  0  2  0  4 -1.31990418336674D-06
6  0  2  2  2 -3.00454945004091D-06
6  0  2  4  0 -1.53769974122193D-07
6  0  4  0  2  1.38085078966193D-05
6  0  4  2  0  2.03207900810751D-05
6  1  1  1  3  2.55318758315195D-06
6  1  1  3  1 -4.50013709824436D-06
6  1  3  1  1 -4.55859752911906D-05
6  2  0  0  4 -5.78798245388265D-06
6  2  0  2  2  5.05232549079606D-06
6  2  0  4  0  6.57906459778654D-06
6  2  2  0  2  1.07392472552822D-04
6  2  2  2  0 -2.23584589473802D-05
6  3  1  1  1  1.78880915842367D-04
6  4  0  0  2 -1.02824565085660D-04
6  4  0  2  0  4.03505959061514D-05
20 TERMS OF DEGREE   6
7  0  1  1  5 -1.53736464141103D-08
7  0  1  3  3 -1.91889742540477D-08
7  0  1  5  1  9.63769053900992D-09
7  0  3  1  3  1.16221921134495D-06
7  0  3  3  1  1.40494616498216D-06
7  0  5  1  1  1.19826846393323D-06
7  1  0  0  6  5.38077624493862D-08
7  1  0  2  4  1.47939977970242D-07
7  1  0  4  2  1.20394871620790D-07
7  1  0  6  0  5.88372187840356D-08
7  1  2  0  4 -4.06776723970731D-06
7  1  2  2  2 -7.05753355086242D-06
7  1  2  4  0 -1.71804844903593D-06
7  1  4  0  2 -4.19393962376629D-06
7  1  4  2  0  4.19393962376629D-06
7  2  1  1  3 -5.21212509067550D-07
7  2  1  3  1 -3.26876747916540D-06
7  2  3  1  1 -3.42524821474564D-05
7  3  0  0  4 -2.10376356589273D-06
7  3  0  2  2 -2.39203260732323D-06
7  3  0  4  0 -2.88497183913268D-06
7  3  2  0  2  3.43693096736774D-05
7  3  2  2  0 -2.56862667610697D-05
7  4  1  1  1  4.87243335636944D-05
7  5  0  0  2 -2.03593096251151D-05
7  5  0  2  0  3.38899355103058D-06
26 TERMS OF DEGREE   7
8  0  0  0  8 -8.85046362978798D-12
8  0  0  2  6 -3.54018545191519D-11
8  0  0  4  4  3.65394713647726D-11
8  0  0  6  2  9.89523560470598D-11
8  0  0  8  0 -3.36013413403651D-12
8  0  2  0  6 -4.58645629041618D-08
8  0  2  2  4 -1.28787728453792D-07
8  0  2  4  2 -1.42791666747403D-07
8  0  2  6  0 -6.32269580003430D-08
8  0  4  0  4  8.89045673691729D-08
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TABLE 2--Continued

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 8  0  4  2  2  2.17563523774651D-09
 8  0  4  4  0 -1.38605742933853D-07
 8  0  6  0  2  8.06957145530519D-07
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 8  6  0  2  0  1.77016084365275D-06
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 9  1  6  0  2 -7.00000000000000D 00
 9  1  6  2  0  7.00000000000000D 00
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 9  3  4  0  2  3.50000000000000D 01
 9  3  4  2  0 -3.50000000000000D 01
 9  4  3  1  1  7.00000000000000D 01
 9  5  2  0  2 -2.10000000000000D 01
 9  5  2  2  0  2.10000000000000D 01
 9  6  1  1  1 -1.40000000000000D 01
 9  7  0  0  2 10.00000000000000D-01
 9  7  0  2  0-10.00000000000000D-01
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10  0  8  2  0  5.59523809523808D-01
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10  1  7  1  1 -7.99999999999999D 00
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 3  1  0  2  0 -3.07539682539683D-02
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 4  0  2  2  0  3.96825396825397D-04
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 4  2  0  0  2 -2.57936507936508D-03
 4  2  0  2  0  1.58730158730159D-03
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TABLE 2--Continued

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TABLE 2--Continued

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10  2  6  0  2 -2.80000000000000D 01
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10  4  4  0  2  7.00000000000000D 01
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10  6  2  0  2 -2.80000000000000D 01
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10  8  0  0  2 10.00000000000000D-01
10  8  0  2  0-10.00000000000000D-01
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11  0  9  1  1 10.00000000000000D-01
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11  1  8  0  2 -3.99999999999999D 00
11  1  8  2  0  4.00000000000000D 00
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3  1  0  0  2  2.66666666666667D 00
3  1  0  2  0 -1.86666666666667D 01
 3 TERMS OF DEGREE   3
4  0  0  0  4 -6.40000000000000D 01
4  0  0  2  2 -1.28000000000000D 02
4  0  0  4  0  1.06666666666667D 02
4  0  2  0  2  2.34666666666667D 01
4  0  2  2  0 -4.48000000000000D 01
4  1  1  1  1  3.41333333333333D 01
4  2  0  0  2  1.92000000000000D 01
4  2  0  2  0  2.13333333333333D 00
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6  0  2  2  2  9.60000000000000D 01
6  0  2  4  0 -3.73333333333333D 01
6  1  1  1  3 -4.26666666666666D 01
6  1  1  3  1  8.53333333333333D 01
6  2  0  0  4  1.06666666666667D 01
6  2  0  4  0 -1.06666666666667D 01
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1  6  0.23466666666667D 03  COS  1


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 2 TERMS OF DEGREE   2
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TABLE 2--Continued

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6  0  4  0  2  1.89001049039144D 01
6  0  4  2  0 -2.47515334753430D 01
6  1  1  1  3 -7.86299904257999D 01
6  1  1  3  1 -2.40986665322919D 02
6  1  3  1  1  6.54774575688861D 01
6  2  0  0  4 -1.60069767363735D 01
6  2  0  2  2  3.32688630217519D 01
6  2  0  4  0 -2.78313803085020D 01
6  2  2  0  2  1.32461632194965D 01
6  2  2  2  0 -2.41018438351772D 00
6  3  1  1  1  5.07667953915573D 01
6  4  0  0  2 -2.89569252616871D 00
6  4  0  2  0  5.13512815227101D 00
20 TERMS OF DEGREE   6
3  4  0.67423868312757D 01  COS  3


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7  0  3  3  1 -4.00000000000000D 00
7  1  2  0  4 -3.00000000000000D 00
7  1  2  2  2  1.80000000000000D 01
7  1  2  4  0 -3.00000000000000D 00
7  2  1  1  3 -1.20000000000000D 01
7  2  1  3  1  1.20000000000000D 01
7  3  0  0  4 10.00000000000000D-01
7  3  0  2  2 -6.00000000000000D 00
7  3  0  4  0 10.00000000000000D-01
10 TERMS OF DEGREE   7
8  0  2  0  6  4.80000000000000D 00
8  0  2  2  4 -2.66666666666666D 00
8  0  2  4  2 -2.40000000000000D 01
8  0  2  6  0  5.33333333333331D-01
8  0  4  0  4 -9.60000000000000D 00
8  0  4  2  2  3.20000000000000D 01
8  0  4  4  0 -1.06666666666666D 00
8  1  1  1  5  2.56000000000000D 01
8  1  1  3  3  4.26666666666666D 01
8  1  1  5  1 -1.70666666666666D 01
8  1  3  1  3 -7.67999999999999D 01
8  1  3  3  1  5.11999999999999D 01
8  2  0  0  6 -4.80000000000000D 00
8  2  0  2  4  2.66666666666666D 00
8  2  0  4  2  2.40000000000000D 01
8  2  0  6  0 -5.33333333333331D-01
8  2  2  0  4  9.59999999999998D 00
8  2  2  2  2 -9.60000000000000D 01
8  2  2  4  0  2.24000000000000D 01
8  3  1  1  3 -8.53333333333337D 00
8  3  1  3  1 -5.11999999999999D 01
8  4  0  0  4  6.40000000000000D 00
8  4  0  4  0 -6.40000000000000D 00
23 TERMS OF DEGREE   8
5  4  0.42666666666667D 01  COS  3
3  6 -0.14222222222222D 01  COS  3


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2  2  0  0  0  5.00000000000000D-01
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3  0  1  1  1  3.04761904761905D-01
3  1  0  0  2 -3.80952380952381D-01
3  1  0  2  0 -2.59047619047619D-01
 3 TERMS OF DEGREE   3
4  0  0  0  4  1.46285714285714D-02
4  0  0  2  2  2.92571428571428D-02
4  0  0  4  0 -2.43809523809524D-02
4  0  2  0  2  3.86031746031746D-01
4  0  2  2  0 -2.64126984126984D-01
4  1  1  1  1  1.62539682539682D 00
4  2  0  0  2 -6.29841269841269D-01
4  2  0  2  0  5.07936507936507D-01
 8 TERMS OF DEGREE   4
5  0  1  1  3 -1.69536628873772D-01
5  0  1  3  1 -3.86256205593348D-01
5  0  3  1  1  2.01633642547928D 00
5  1  0  0  4  2.11920786092215D-01
5  1  0  2  2  3.18577777777777D-01
5  1  0  4  0 -1.44737717309146D-01
5  1  2  0  2 -2.52042053184910D 00
5  1  2  2  0  2.52042053184910D 00
5  2  1  1  1 -3.89419748505463D 00
5  3  0  0  2 -5.76980691266406D-02
5  3  0  2  0 -8.09180237751665D-01
11 TERMS OF DEGREE   5
6  0  0  0  6 -1.39169468984631D-02
6  0  0  2  4 -4.17508406953892D-02
```


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TABLE 2--Continued

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6  0  0  6  0  2.62771454774502D-02
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6  0  2  2  2  1.15038579097093D 00
6  0  2  4  0 -1.35524627230735D 00
6  0  4  0  2 -9.06835633032458D-01
6  0  4  2  0  8.26790116644084D-01
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6  1  1  3  1  5.78082990204386D 00
6  1  3  1  1 -4.33406437419136D 00
6  2  0  0  4 -9.37730660131167D-01
6  2  0  2  2 -9.94050480313336D-01
6  2  0  4  0  9.53708240561319D-01
6  2  2  0  2  8.95118967804681D-01
6  2  2  2  0 -2.66827914096485D 00
6  3  1  1  1  1.32388261708896D 00
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20 TERMS OF DEGREE   6
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7  0  1  5  1 -1.61674456235895D 00
7  0  3  1  3  3.35311071929233D 00
7  0  3  3  1  5.51128563542255D 00
7  0  5  1  1 -9.36559970465262D-01
7  1  0  0  6  7.40739336539420D-01
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7  1  0  4  2  1.24227966186555D 00
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7  1  2  0  4 -4.19138839911541D 00
7  1  2  2  2 -5.77165671492528D 00
7  1  2  4  0  4.77252434566934D 00
7  1  4  0  2  1.17069996308158D 00
7  1  4  2  0 -1.17069996308158D 00
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7  2  1  3  1 -8.55886877102591D 00
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26 TERMS OF DEGREE   7
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8  0  0  2  6 -2.14268175707538D-01
8  0  0  4  4 -2.45550555499670D-01
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8  0  0  8  0  1.04586765859947D-01
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8  0  2  6  0 -2.24196970073915D 00
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8  0  6  2  0 -1.25321400894458D-01
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8  3  3  1  1 -9.13915045539552D-01
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8  4  2  2  0 -3.57904516033604D-01
8  5  1  1  1 -7.00861599949033D-01
8  6  0  0  2  2.29027904000127D-01
8  6  0  2  0 -3.33856314412165D-01
40 TERMS OF DEGREE   8
5  4 -0.24657871840094D-01  COS  5

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9  0  5  3  1 -4.00000000000000D 00
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9  2  3  3  1  4.00000000000000D 01
9  4  1  1  3  2.00000000000000D 01
9  4  1  3  1 -2.00000000000000D 01
9  1  4  0  4 -5.00000000000000D 00
9  1  4  2  2  3.00000000000000D 01
9  1  4  4  0 -5.00000000000000D 00
9  3  2  0  4 10.00000000000000D 00
9  3  2  2  2 -6.00000000000000D 01
9  3  2  4  0 10.00000000000000D 00
9  5  0  0  4-10.00000000000000D-01
9  5  0  2  2  6.00000000000000D 00
9  5  0  4  0-10.00000000000000D-01
15 TERMS OF DEGREE   9
10 0  4  0  6  1.90476190476190D 00
10 0  4  2  4 -4.03809523809523D 00
10 0  4  4  2 -1.19619047619047D 01
10 0  4  6  0  1.29523809523809D 00
10 0  6  0  4 -3.80952380952380D 00
10 0  6  2  2  1.92000000000000D 01
10 0  6  4  0 -2.59047619047619D 00
10 1  3  1  5  2.43809523809523D 01
10 1  3  3  3  2.68190476190476D 01
10 1  3  5  1 -2.68190476190476D 01
10 1  5  1  3 -6.70476190476189D 01
10 1  5  3  1  6.09523809523809D 01
10 2  2  0  6 -1.14285714285714D 01
```


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TABLE 2--Continued

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10  2  2  2  4  2.42285714285714D 01
10  2  2  4  2  7.17714285714285D 01
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10  2  4  0  4  3.04761904761905D 01
10  2  4  2  2 -1.92000000000000D 02
10  2  4  4  0  3.35238095238095D 01
10  3  1  1  5 -2.43809523809524D 01
10  3  1  3  3 -2.68190476190476D 01
10  3  1  5  1  2.68190476190476D 01
10  3  3  1  3  1.09714285714286D 02
10  3  3  3  1 -1.46285714285714D 02
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10  4  0  2  4 -4.03809523809523D 00
10  4  0  4  2 -1.19619047619047D 01
10  4  0  6  0  1.29523809523809D 00
10  4  2  0  4 -3.80952380952379D 00
10  4  2  2  2  9.59999999999998D 01
10  4  2  4  0 -2.81904761904761D 01
10  5  1  1  3  1.21904761904764D 00
10  5  1  3  1  2.68190476190476D 01
10  6  0  0  4 -1.52380952380953D 00
10  6  0  4  0  1.52380952380953D 00
 35 TERMS OF DEGREE  10
 7  4  0.60952380952381D 00   COS  5
 5  6  0.31695238095238D-00   COS  5


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 2  2  0  0  0  5.00000000000000D-01
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 3  0  1  1  1 -6.25000000000000D-02
 3  1  0  0  2  1.04166666666667D-02
 3  1  0  2  0 -1.77083333333333D-01
  3 TERMS OF DEGREE   3
 4  0  0  0  4 -5.85937500000000D-03
 4  0  0  2  2 -1.17187500000000D-02
 4  0  0  4  0  9.76562500000000D-03
 4  0  2  0  2  9.05257936507937D-04
 4  0  2  2  0 -1.77331349206349D-03
 4  1  1  1  1  8.92857142857143D-04
 4  2  0  0  2  8.30853174603175D-04
 4  2  0  2  0  3.72023809523798D-05
  8 TERMS OF DEGREE   4
 5  0  1  1  3 -1.82911706349206D-03
 5  0  1  3  1 -4.89831349206349D-04
 5  0  3  1  1  1.02694072420635D-04
 5  1  0  0  4  3.04852843915344D-04
 5  1  0  2  2 -9.71395502645503D-04
 5  1  0  4  0  5.09465939153439D-04
 5  1  2  0  2 -1.71156787367725D-05
 5  1  2  2  0  1.71156787367725D-05
 5  2  1  1  1  9.80437748015874D-05
 5  3  0  0  2 -1.68573288690476D-05
 5  3  0  2  0  3.22937334656097D-07
 11 TERMS OF DEGREE   5
 6  0  0  0  6 -1.01725260416667D-04
 6  0  0  2  4 -3.05175781250000D-04
 6  0  0  4  2  1.52103484623016D-04
 6  0  0  6  0  1.32339719742063D-04
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 6  0  2  4  0 -1.23838778856450D-06
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 6  0  4  2  0  2.87236278941311D-06
 6  1  1  1  3  6.88613118858654D-05
 6  1  1  3  1 -1.03845574688209D-04
 6  1  3  1  1 -1.44754643917590D-06
 6  2  0  0  4  1.75673296662415D-05
 6  2  0  2  2  3.84833657131834D-05
 6  2  0  4  0  8.61627564799078D-07
 6  2  2  0  2 -2.81992418629789D-06
 6  2  2  2  0  2.77148358609947D-06
 6  3  1  1  1 -1.43489994215441D-06
 6  4  0  0  2 -1.35017459559518D-06
 6  4  0  2  0 -3.57647990065211D-08
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 1  6  0.36239624023437D-05   COS  1


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 7  0  1  3  3 -2.00000000000000D 01
 7  0  1  5  1  6.00000000000000D 00
 7  1  0  0  6-10.00000000000000D-01
 7  1  0  2  4  1.50000000000000D 01
 7  1  0  4  2 -1.50000000000000D 01
 7  1  0  6  0 10.00000000000000D-01
  7 TERMS OF DEGREE   7
 8  0  0  0  8 -1.04166666666666D-02
 8  0  0  2  6 -4.16666666666661D-02
 8  0  0  4  4 -1.56250000000000D 00
 8  0  0  6  2  2.29166666666667D 00
 8  0  0  8  0 -1.77083333333333D-01
 8  0  2  0  6  2.08333333333335D-02
 8  0  2  2  4  1.56250000000000D 00
 8  0  2  4  2 -3.43750000000000D 00
 8  0  2  6  0  3.54166666666666D-01
 8  1  1  1  5 -4.99999999999999D-01
 8  1  1  3  3  3.33333333333333D 00
 8  1  1  5  1 -1.50000000000000D 00
 8  2  0  0  6  6.25000000000002D-02
 8  2  0  2  4 -3.12499999999999D-01
 8  2  0  4  2 -3.12500000000001D-01
 8  2  0  6  0  6.24999999999999D-02
 16 TERMS OF DEGREE   8
 3  6 -0.52083333333333D-02   COS  1
 1  8  0.13541666666667D-00   COS  1


 N/M=6/2              SA=3.00 SB=1.00
 2  0  2  0  0  5.00000000000000D-01
 2  2  0  0  0  5.00000000000000D-01
  2 TERMS OF DEGREE   2
 3  0  1  1  1 -4.00000000000000D-01
 3  1  0  0  2  1.33333333333333D-01
 3  1  0  2  0 -4.66666666666667D-01
  3 TERMS OF DEGREE   3
 4  0  0  0  4 -3.75000000000000D-02
 4  0  0  2  2 -7.50000000000000D-02
```


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TABLE 2--Continued

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4  0  0  4  0  6.25000000000000D-02
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4  1  1  1  1  5.00000000000000D-02
4  2  0  0  2  1.80555555555556D-02
4  2  0  2  0  4.16666666666666D-03
 8 TERMS OF DEGREE   4
5  0  1  1  3  4.74603174603174D-02
5  0  1  3  1 -5.96825396825396D-02
5  0  3  1  1  1.33189033189033D-02
5  1  0  0  4 -1.58201058201058D-02
5  1  0  2  2  8.95502645502645D-02
5  1  0  4  0  1.25132275132275D-02
5  1  2  0  2 -4.43963443963444D-03
5  1  2  2  0  4.43963443963444D-03
5  2  1  1  1  1.11544011544012D-02
5  3  0  0  2 -4.19913419913420D-03
5  3  0  2  0  4.95430495430495D-04
11 TERMS OF DEGREE   5
6  0  0  0  6 -1.13095238095238D-03
6  0  0  2  4 -3.39285714285714D-03
6  0  0  4  2 -1.52579365079365D-02
6  0  0  6  0  4.86111111111110D-03
6  0  2  0  4  2.60166646624980D-03
6  0  2  2  2  4.29169873336540D-02
6  0  2  4  0 -1.70930485409652D-02
6  0  4  0  2 -8.40347923681257D-04
6  0  4  2  0  1.53519320185987D-03
6  1  1  1  3 -2.51424362674362D-02
6  1  1  3  1  3.80831529581529D-02
6  1  3  1  1 -1.58369408369408D-03
6  2  0  0  4  6.79207251082251D-03
6  2  0  2  2 -3.03603495270162D-03
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6  2  2  0  2 -1.41674683341350D-03
6  2  2  2  0  1.32655924322591D-03
6  3  1  1  1 -1.53559403559403D-03
6  4  0  0  2 -5.80407247073914D-04
6  4  0  2  0 -8.43755010421677D-05
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7  0  1  3  3  3.81098805515472D-02
7  0  1  5  1 -2.87632801942325D-02
7  0  3  1  3 -7.49634267448118D-03
7  0  3  3  1  1.44070753360796D-02
7  0  5  1  1 -4.28765803606649D-04
7  1  0  0  6 -1.20303513212243D-02
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7  1  0  4  2  5.74373559861654D-02
7  1  0  6  0  1.80760562923261D-03
7  1  2  0  4  2.49878089149373D-03
7  1  2  2  2 -2.07829541123192D-02
7  1  2  4  0  2.75543417621339D-03
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7  2  1  1  3 -3.80730492050838D-03
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7  3  0  4  0 -8.23170867398859D-04
7  3  2  0  2  2.78328050079175D-04
7  3  2  2  0 -1.61017377212946D-04
7  4  1  1  1 -3.61776374508740D-04
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8  0  2  4  2  1.50000000000000D 01
8  0  2  6  0-10.00000000000000D-01
8  1  1  1  5  1.20000000000000D 01
8  1  1  3  3 -4.00000000000000D 01
8  1  1  5  1  1.20000000000000D 01
8  2  0  0  6-10.00000000000000D-01
8  2  0  2  4  1.50000000000000D 01
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9  0  1  5  3  8.26666666666664D 00
9  0  1  7  1 -4.79999999999999D 00
9  0  3  1  5 -8.00000000000008D-01
9  0  3  3  3 -1.33333333333333D 01
9  0  3  5  1  8.79999999999999D 00
9  1  0  0  8 -2.66666666666664D-01
9  1  0  2  6  1.33333333333339D-01
9  1  0  4  4 -1.99999999999998D 00
9  1  0  6  2  9.46666666666667D 00
9  1  0  8  0 -9.33333333333333D-01
9  1  2  0  6  2.66666666666667D-01
9  1  2  2  4  1.20000000000000D 01
9  1  2  4  2 -2.80000000000000D 01
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9  2  1  3  3  1.33333333333333D 01
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9  3  0  0  6  8.00000000000000D-01
9  3  0  2  4 -4.00000000000000D 00
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9  3  0  6  0  7.99999999999999D-01
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2  8 -0.76666666666667D 00  SIN  2

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3  1  0  0  2 -7.61904761904761D-01
3  1  0  2  0  9.52380952380952D-02
 3 TERMS OF DEGREE   3
4  0  0  0  4  1.07142857142857D-01
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TABLE 2--Continued

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TABLE 2--Continued

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TABLE 2--Continued

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8  2  0  4  2  3.13987047182066D-08
8  2  0  6  0 -3.60884536997365D-08
8  2  2  0  4 -9.78082149667161D-09
8  2  2  2  2  1.87874832888109D-08
8  2  2  4  0  6.59529418823770D-09
8  2  4  0  2  1.98640243246210D-10
8  2  4  2  0 -2.62853343339467D-10
8  3  1  1  3 -9.06042536923977D-09
8  3  1  3  1  6.01957647565280D-09
8  3  3  1  1  9.97488761947050D-11
8  4  0  0  4 -4.60727245554707D-09
8  4  0  2  2 -6.22091424826356D-09
8  4  0  4  0  4.46067663588013D-10
8  4  2  0  2  1.95523090865126D-10
8  4  2  2  0 -1.29193735616555D-10
8  5  1  1  1  4.97505779408561D-11
8  6  0  0  2  6.41378932479407D-11
8  6  0  2  0  9.22619278571561D-13
40 TERMS OF DEGREE   8
1  8  0.16774800439080D-08  COS  1

 N/M=8/1                SA=8.00 SB=1.00
9  0  1  1  7  8.00000000000000D 00
9  0  1  3  5 -5.60000000000000D 01
9  0  1  5  3  5.60000000000000D 01
9  0  1  7  1 -8.00000000000000D 00
9  1  0  0  8-10.00000000000000D-01
9  1  0  2  6  2.80000000000000D 01
9  1  0  4  4 -7.00000000000000D 01
9  1  0  6  2  2.80000000000000D 01
9  1  0  8  0-10.00000000000000D-01
 9 TERMS OF DEGREE   9
10  0  0  0 10 -4.16666666666649D-03
```


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TABLE 2--Continued

```
10   0   0   2   8 -2.08333333333317D-02
10   0   0   4   6 -2.04166666666666D 00
10   0   0   6   4  7.29166666666666D 00
10   0   0   8   2 -3.35416666666666D 00
10   0   0  10   0  1.29166666666666D-01
10   0   2   0   8  8.33333333333341D-03
10   0   2   2   6  1.63333333333333D 00
10   0   2   4   4 -8.74999999999998D 00
10   0   2   6   2  5.36666666666666D 00
10   0   2   8   0 -2.58333333333333D-01
10   1   1   1   7 -4.00000000000000D-01
10   1   1   3   5  5.60000000000000D 00
10   1   1   5   3 -8.39999999999999D 00
10   1   1   7   1  1.60000000000000D 00
10   2   0   0   8  3.33333333333340D-02
10   2   0   2   6 -4.66666666666668D-01
10   2   0   6   2  4.66666666666666D-01
10   2   0   8   0 -3.33333333333335D-02
 19 TERMS OF DEGREE  10
 3   8 -0.20833333333334D-02  COS  1
 1  10  0.97916666666667D-01  COS  1
```


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TABLE 3

COEFFICIENTS OF THE THIRD INTEGRAL SPECIAL RESONANT CASES

```
 N/M=2/1                SA=1.00 SB=0.50
4  0  0  0  4  3.500000000000000D 00
4  0  0  2  2  7.000000000000000D 00
4  0  0  4  0 -5.000000000000000D-01
4  0  2  0  2 -3.000000000000000D 00
4  0  2  2  0  5.000000000000000D 00
4  0  4  0  0 -2.500000000000000D-01
4  1  1  1  1 -8.000000000000000D 00
4  2  0  0  2-10.000000000000000D-01
4  2  0  2  0-10.000000000000000D-01
4  2  2  0  0 -5.000000000000000D-01
4  4  0  0  0 -2.500000000000000D-01
11 TERMS OF DEGREE   4
5  0  1  1  3 -6.666666666666666D 00
5  0  1  3  1  4.666666666666666D 01
5  0  3  1  1 -8.500000000000000D 00
5  1  0  0  4  3.333333333333332D 00
5  1  0  2  2 -5.600000000000000D 01
5  1  0  4  0 -1.666666666666667D 01
5  1  2  0  2  4.250000000000000D 00
5  1  2  2  0 -2.499999999999999D-01
5  2  1  1  1  1.500000000000000D 00
5  3  0  0  2  2.583333333333333D 00
5  3  0  2  0  1.208333333333333D 01
11 TERMS OF DEGREE   5
2  4  0.195000000000000D 02  SIN  2

 N/M=2/2                SA=1.00 SB=1.00
4  0  0  0  4  8.333333333333333D-02
4  0  0  2  2  1.666666666666667D-01
4  0  0  4  0  8.333333333333333D-02
4  0  2  0  2 10.000000000000000D-01
4  0  2  2  0-10.000000000000000D-01
4  0  4  0  0 -3.333333333333333D-01
4  1  1  1  1  4.000000000000000D 00
4  2  0  0  2-10.000000000000000D-01
4  2  0  2  0 10.000000000000000D-01
4  2  2  0  0 -6.666666666666667D-01
4  4  0  0  0 -3.333333333333333D-01
11 TERMS OF DEGREE   4
5  0  1  1  3 -1.555555555555556D 00
5  0  1  3  1 -2.888888888888889D 00
5  0  3  1  1  3.111111111111111D 00
5  1  0  0  4  1.555555555555556D 00
5  1  0  2  2  2.000000000000000D 00
5  1  0  4  0 -8.888888888888888D-01
5  1  2  0  2 -3.111111111111111D 00
5  1  2  2  0  4.444444444444444D 00
5  2  1  1  1 -4.888888888888889D 00
5  3  0  0  2 -4.444444444444445D-01
5  3  0  2  0 -8.888888888888888D-01
11 TERMS OF DEGREE   5
6  0  0  0  6 -2.152777777777778D-01
6  0  0  2  4 -6.458333333333333D-01
6     0  4  2 -2.569444444444444D-01
6  0  0  6  0  3.958333333333333D-01
6  0  2  0  4  5.833333333333334D-01
6  0  2  2  2  3.111111111111111D 00
6  0  2  4  0 -2.138888888888889D 00
6  0  4  0  2 -8.611111111111111D-01
6  0  4  2  0  9.166666666666666D-01
6  1  1  1  3 -3.888888888888889D 00
6  1  1  3  1  5.444444444444444D 00
6  1  3  1  1 -3.555555555555555D 00
6  2  0  0  4  2.527777777777778D 00
6  2  0  2  2 -3.111111111111111D 00
6  2  0  4  0 -9.722222222222223D-01
6  2  2  0  2  5.555555555555548D-02
6  2  2  2  0 -3.055555555555555D 00
6  3  1  1  1  2.666666666666666D 00
6  4  0  0  2 -6.388888888888889D-01
6  4  0  2  0  1.583333333333333D 00
20 TERMS OF DEGREE   6
7  0  1  1  5 -8.648148148148120D-01
7  0  1  3  3 -2.981481481481480D 00
7  0  1  5  1 -4.027777777777777D 00
7  0  3  1  3  1.392592592592590D 00
7  0  3  3  1  3.407407407407420D-01
7  0  5  1  1  6.740740740740740D-01
7  1  0  0  6  8.648148148148130D-01
7  1  0  2  4  3.453703703703700D 00
7  1  0  4  2  4.972222222222220D 00
7  1  0  6  0  2.500000000000000D-01
7  1  2  0  4 -1.392592592592590D 00
7  1  2  2  2  6.600000000000000D 00
7  1  2  4  0 -3.325925925925920D 00
7  1  4  0  2 -6.740740740740740D-01
7  1  4  2  0  6.740740740740740D-01
7  2  1  1  3 -9.629629629629620D 00
7  2  1  3  1  1.287407407407400D 01
7  2  3  1  1  2.059259259259260D 00
7  3  0  0  4  2.281481481481480D 00
7  3  0  2  2 -1.036296296296300D 01
7  3  0  4  0  4.814814814814800D-01
7  3  2  0  2 -1.585185185185180D 00
7  3  2  2  0  3.955555555555555D 00
7  4  1  1  1 -1.281481481481480D 00
7  5  0  0  2 -3.777777777777780D-01
7  5  0  2  0  2.592592592592600D-01
26 TERMS OF DEGREE   7
6  2 -0.254629629629630D-00  SIN  2
4  4 -0.405555555555560D 01  SIN  2
2  6  0.364004629629630D 01  SIN  2
4  4 -0.154861111111110D 01  SIN  4
```


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