## EMDEN'S FUNCTIONS FOR POLYTROPES WITH NEGATIVE INDEX

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The Emden's equation is numerically integrated for plane-parallel, cylindrical and spherical polytropes with negative index. The polytropic functions are tabulated for 10 values of the polytropic index in the range -10 < n < -0.2.

Key words: polytrope - numerical integration

#### 1. INTRODUCTION

In the past, the equilibrium structure of polytropic configurations has been extensively studied (see for example Chandrasekhar 1939, Ostriker 1964, Harrison and Lake 1972). In such configurations the pressure p and the density  $\rho$  are related by the polytropic law:

 $p = K \rho^{1 + \frac{1}{n}} \tag{1}$ 

where K and n are constants; n is defined as the polytropic index.

Only simple geometric configurations, such as plane-parallel, cylindrical and spherical polytropes were studied. Their structure is found by solving the well known Lane Emden equation (Harrison and Lake 1972):

$$\frac{1}{\xi^m} \frac{\mathrm{d}}{\mathrm{d}\xi} \left( \xi^m \frac{\mathrm{d}\theta}{\mathrm{d}\xi} \right) = \overline{+} \, \theta^n \tag{2}$$

where m=0, 1 and 2 for plane-parallel, cylindrical and spherical configurations respectively.

In eq. (2) and throughout this paper, the upper sign refers to polytropes of index  $-1 < n < +\infty$ , while the lower sign applies when  $-\infty < n < -1$ .

All the physical parameters (e.g. density, pressure, temperature, etc...) which describe a polytropic configuration can be expressed in terms of the function  $\theta(\xi)$  and its first derivative  $\theta' \equiv \frac{d\theta}{d\xi}$ . These functions must satisfy the boundary conditions:  $\theta(0) = 1; \quad \theta'(0) = 0$ (3)

 $\xi$  is the dimensionless distance to the mid-plane of the sheets in the case m=0, to the axes of the cylinder when m=1 and to the centre of the sphere when m=2, and so is always positive.

All the previous works were generally concerned with polytropes of positive index. Equation (2) has already been integrated numerically for these polytropes and the functions  $\theta(\xi)$  and  $\theta'(\xi)$  have been tabulated (Tascione 1972 for m=0; Ostriker 1965 for m=1; Emden 1932 for m=2).

Polytropic configurations with negative index have been studied only in the case m=2 (Shu et al. 1972; Viala 1972) but no details on the numerical integration of equation (2) and no extensive tables were given. In a next paper (Horedt and Viala, to be submitted to Astron. Astrophys.) the structure of polytropic configurations with negative index will be studied in the three cases m=0, 1 and 2 and their stability under external pressure will be considered. For these purposes, equation (2) must be solved and the present paper is concerned with the numerical integration of this equation. In section (2) we study the solution of equation (2) near the origin. In section (3) we give the asymptotic behaviour of this solution near the boundary of the

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polytropes. Finally, section (4) gives the results in the form of numerical tables of the functions  $\theta(\xi)$ ,  $\theta'(\xi)$  and other physical quantities.

Note that the case n = -1 is not considered since it corresponds to configurations in which the pressure is constant throughout. In the absence of magnetic field or rotation, as it is supposed here, such configurations cannot be in hydrostatic equilibrium since no pressure gradients balance gravitational attraction.

The case  $n = -\infty$  corresponds to isothermal configurations with  $p \propto \rho$  which have been already studied (see references above).

# 2. SOLUTION OF THE LANE-EMDEN'S EQUATION NEAR THE ORIGIN FOR POLYTROPES OF INDEX $-\infty < n < 0$

The integration is started by writting  $\theta$  in the form of a series expansion near the origin:

$$\theta(\xi) = a_0 + a_1 \xi + a_2 \xi^2 + a_3 \xi^3 + \dots \tag{4}$$

From the bondary condition (3) we find immediately:

$$a_0 = 1; a_1 = 0$$
 (5)

The other coefficients  $a_i$  are obtained by substituting this series in eq. (2) and comparing terms: it can be seen that, because  $a_1 = 0$ , all the odd terms vanish.

We note below the series expansion up to the terms  $a_{10}\xi^{10}$ :

$$m=0: \ \theta(\xi)=1 \mp \frac{1}{2!}\xi^{2} + \frac{n}{4!}\xi^{4}$$

$$\mp \frac{n(4n-3)}{6!}\xi^{6} + \frac{n(34n^{2}-63n+30)}{8!}\xi^{8}$$

$$\mp \frac{n(496n^{3}-1554n^{2}+1689n-630)}{10!}\xi^{10} + \dots$$

$$m=1: \theta(\xi)=1 \mp \frac{1}{(1!)^{2}2^{2}}\xi^{2} + \frac{n}{(2!)^{2}2^{4}}\xi^{4}$$

$$\mp \frac{n(3n-2)}{(3!)^{2}2^{6}}\xi^{6} + \frac{n(18n^{2}-29n+12)}{(4!)^{2}2^{8}}\xi^{8}$$

$$\mp \frac{n(180n^{3}-505n^{2}+470n-144)}{(5!)^{2}2^{10}}\xi^{10} + \dots$$

$$m=2: \theta(\xi)=1 \mp \frac{1}{3!}\xi^{2} + \frac{n}{5!}\xi^{4}$$

$$\mp \frac{n(8n-5)}{3\times7!}\xi^{6} + \frac{n(122n^{2}-183n+70)}{9\times9!}\xi^{8}$$

$$\mp \frac{n(5032n^{3}-12642n^{2}+10805n-3150)}{45\times11!}\xi^{10} + \dots$$
(8)

Ten terms were used to calculate  $\theta(\xi)$  from  $\xi = 0$  to some value  $\xi_1$ , which was choosen in such a way that the remaining error in  $\theta$  and  $\theta'$ , as a consequence of dropping all terms in the series beyond  $a_{20} \xi^{20}$ , is less than  $10^{-5}$ . This value of  $\xi_1$  depends of course on m and n.

Beyond  $\xi = \xi_1$ , eq. (2) was integrated numerically using Adams' method.

# 3. BEHAVIOUR OF THE SOLUTION OF THE LANE-EMDEN'S EQUATION NEAR THE BOUNDARY OF POLYTROPES WITH NEGATIVE INDEX

The mass distribution inside polytropic configurations, that is the mass per unit area between planes at  $\pm \xi$  in the case m=0, the mass inside a cylinder of radius  $\xi$  and length unity when m=1 and the mass inside a sphere of radius  $\xi$  when m=2, is proportional to  $\mp \xi^m \theta'$  (Horedt and Viala, to be submitted to Astron. Astrophys.). Since this quantity must be positive,  $\theta'$  must be negative for polytropes of index -1 < n < 0 and positive when  $-\infty < n < -1$ .

So, for polytropes of index -1 < n < 0, the function  $\theta(\xi)$  decrease monotically from the values 1, when  $\xi = 0$ , and 0 which is reached for a finite value  $\xi^*$ . This fixes the extension of these configurations since  $\theta^{n+1}$ , proportional to the pressure, also becomes equal to zero. In this case, equation (2) must be solved between  $\xi = 0$  and  $\xi = \xi^*$ .

In the case  $-\infty < n < -1$ , the function  $\theta(\xi)$  increase monotically from 1 (when  $\xi = 0$ ) and equation (2) must be integrated up to the boundary of the configurations, that is up to some value  $\xi = \xi^*$  at which  $\theta^{n+1} = 0$ . To determine the extension of these configurations given by  $\xi^*$  we shall study the behaviour of  $\theta(\xi)$  near the boundary of the polytrope in the three cases m = 0, 1 and 2.

## 3.1. Plane-parallel polytropes (m=0)

Equation (2) reduces to:

$$\frac{\mathrm{d}^2\theta}{\mathrm{d}\xi^2} = \theta^n \tag{9}$$

Substituting  $f = \frac{d\theta}{d\xi}$ , we get:

$$f\frac{\mathrm{d}f}{\mathrm{d}\theta} = \theta^n \tag{10}$$

and the boundary condition (3) becomes:

$$\theta(0) = 1, f(0) = 0$$
 (11)

The solution of equation (10) is then:

$$f = \frac{d\theta}{d\xi} = \sqrt{-\frac{2}{n+1} (1 - \theta^{n+1})}$$
 (12)

We preserve only the positive sign before the radical because the negative solution is physically meaningless since  $\frac{d\theta}{d\xi}$  must be positive.

As  $\theta^{n+1}$  (proportional to the pressure) tends to 0, the integration of (12) yields the solution  $\theta(\xi)$  near the boundary of a plane-symmetric polytrope:

$$\theta(\xi) \simeq \sqrt{-\frac{2}{n+1}} \,\xi + \text{const.} \tag{13}$$

Now, near the boundary  $\theta^{n+1} \to 0$ , and when n < -1,  $\theta$  tends to infinity: we can see from (13) that  $\xi$ , which is the dimensionless distance to the mid-plane, also tends to infinity if  $\theta \to +\infty$ . Therefore a plane parallel polytrope of index n < -1 extends to infinity. Nevertheless its mass per unit area, proportional to  $\frac{d\theta}{d\xi}$  remains finite since

$$\frac{\mathrm{d}\theta}{\mathrm{d}\xi} \to \sqrt{-\frac{2}{n+1}} \quad \text{as } \xi \to +\infty$$

# 3.2. Cylindrical (m=1) and spherical (m=2) polytropes

Cylindrical and spherical polytropes are much more complicated to study since equation (2) has no analytic solution. A method used by Chandrasekhar (1939) for polytropes of index n > 5 will be used here to find the behaviour of  $\theta(\xi)$  near the boundary of the configuration.

Putting 
$$\xi = e^{-t}$$
,  $z = \xi^k \theta$  (14)

with 
$$k = \frac{2}{n-1}$$
 (15)

Equation (2) becomes:

$$\frac{\mathrm{d}^2 z}{\mathrm{d}t^2} + (2k+1-m)\frac{\mathrm{d}z}{\mathrm{d}t} + (k+1-m)z - z^n = 0 \tag{16}$$

Introducing a new function:

$$y = \frac{\mathrm{d}z}{\mathrm{d}t} \tag{17}$$

We may write:

$$\frac{\mathrm{d}^2 z}{\mathrm{d}t^2} = \frac{\mathrm{d}y}{\mathrm{d}t} = \frac{\mathrm{d}y}{\mathrm{d}z} \frac{\mathrm{d}z}{\mathrm{d}t} = y \frac{\mathrm{d}y}{\mathrm{d}z}$$

The differential equation for y(z) is then:

$$y\frac{dy}{dz} + (2k+1-m)y + k(k+1-m)z - z^n = 0$$
(18)

This equation replaces (2) but is of first order. The order has been reduced by one because y and z are homology invariant functions, as may easily be shown (Chandrasekhar 1939).

If  $-\infty < n < -1$ , then -1 < k < 0; with these conditions k(k+1-m) > 0 for  $m \ge 1$ , and equation (18) has a singular point at

$$y = 0, z = z_s = \left[ k(k+1-m) \right]^{\frac{k}{2}}$$
 (19)

Let us study the behaviour of the solution y(z) of the equation (18) near this singular point. We may write:

$$z = z_s + z_1 \tag{20}$$

Where

$$z_1 < < z_s$$

Then:

$$(z_s + z_1)^n = z_s^n (1 + \frac{z_1}{z_s})^n \sim z_s^n (1 + n \frac{z_1}{z_s})$$
(21)

Using (14) and (19)-(21), equation (18) becomes:

$$y \frac{\mathrm{d}y}{\mathrm{d}z_1} + (2k+1-m)y - 2(k+1-m)z_1 = 0 \tag{22}$$

Substituting (17) and (20), this becomes:

$$\frac{\mathrm{d}^2 z_1}{\mathrm{d}t^2} + (2k+1-m)\frac{\mathrm{d}z_1}{\mathrm{d}t} - 2(k+1-m)z_1 = 0 \tag{23}$$

This linear and homogeneous equation of second order may be easily integrated. Its characteristic equation is:

$$x^{2} + (2k+1-m)x - 2(k+1-m) = 0$$
(24)

The discriminant of this equation is:

$$\Delta = 4k^2 + 4k(3-m) + (1-m)(9-m) \tag{25}$$

The roots of the equation  $\Delta = 0$  are:

$$k' = 0$$
 ,  $k'' = -2$  for  $m = 1$ 

and

$$k' = -\frac{1}{2} + \sqrt{2}$$
,  $k'' = -\frac{1}{2} - \sqrt{2}$  for  $m = 2$ 

Now, since -1 < k < 0 when  $-\infty < n < -1$ , in the two above cases k lies between the roots of the equation  $\Delta = 0$ , so that  $\Delta$  is always negative and the roots of the characteristic equation (24) are imaginary:

$$x_1, x_2 = \frac{m - 1 - 2k \pm i\sqrt{-4k^2 - 4k(3 - m) - (1 - m)(9 - m)}}{2}$$
(26)

We shall now study the cases m=1 and m=2 separately.

### 3.3 Cylindrical polytropes (m=1)

The solution of equation (23) is:

$$z_1 = A \exp\left(-kt\right) \cos\left(\sqrt{-k(k+2)}t + \delta\right) \tag{27}$$

where A and  $\delta$  are integration constants.

Substituting in (20) and (17), we obtain:

$$z = k^k + A \exp(-kt)\cos F(t) \tag{28}$$

$$y = -A \exp(-kt) [k \cos F(t) + \sqrt{-k(k+2)} \sin F(t)]$$
 (29)

with  $F(t) = \sqrt{-k(k+2)}t + \delta$ 

Since -1 < k < 0, then  $z \to z_s$  and  $y \to 0$  when  $t \to -\infty$ , and the solution y(z) of equation (18) approaches the singular point  $(y=0, z=z_s)$  along a spiral path because of the presence of the sine and cosine terms.

From (14),  $t \to -\infty$  corresponds to  $\xi \to +\infty$ . Returning now to the  $\theta$ ,  $\xi$  variables, we obtain, from Eqs. (14) and (28) the asymptotic behaviour of the solution  $\theta(\xi)$  in the limit  $\xi \to +\infty$ :

$$\theta(\xi) \simeq \xi^{-k} [k^k + A \, \xi^k \cos F(\xi)] \tag{30}$$

with 
$$F(\xi) = \sqrt{-k(k+2)} \operatorname{Log} \xi + \delta$$

We can see from this that  $\theta(\xi) \to +\infty$  as  $\xi \to +\infty$ . Therefore, the density  $(\infty \theta^n)$  and the pressure  $(\infty \theta^{n+1})$  tend to 0, as  $\xi$  tends to infinity. In the absence of an external pressure a cylindrical polytrope of index n < -1 extends to infinity. Its mass per unit length, which is proportional to  $\xi \frac{d\theta}{d\xi}$ , is also infinite since

$$\xi \frac{d\theta}{d\xi} \simeq -k \, \xi^{-k} \left[ k^k + A \, \xi^k \cos F(\xi) \right] + \left[ A \, k \cos F(\xi) + A \sqrt{-k(k+2)} \sin F(\xi) \right] \to +\infty \text{ as } \xi \to +\infty$$

# 3.4. Spherical polytropes (m=2)

For m=2, the expressions for  $z_1$ , z and y are:

$$z_1 = A \exp\left(\frac{1 - 2k}{2}t\right) \cos G(t) \tag{31}$$

$$z = \left[ k(k-1) \right]^{\frac{k}{2}} + A \exp\left(\frac{1-2k}{2}t\right) \cos G(t)$$
 (32)

$$y = A \exp\left(\frac{1 - 2k}{2}t\right) \left[\frac{1 - 2k}{2}\cos G(t) - \frac{\sqrt{7 - 4k - 4k^2}}{2}\sin G(t)\right]$$
(33)

with 
$$G(t) = \frac{\sqrt{7 - 4k - 4k^2}}{2}t + \delta$$

Since  $\frac{1}{2} < \frac{1-2k}{2} < \frac{3}{2}$ , then  $z \to z_s$  and  $y \to 0$  when  $t \to -\infty$ : The solution y(z) of equation (18) approaches the singular point  $(y=0, z=z_s)$  along a spiral path, as for cylindrical polytropes.

Returning to the variables  $\theta$  and  $\xi$ , we get as before, from Eqs (14) and (32), the asymptotic behaviour of the solution  $\theta(\xi)$  for  $\xi \to +\infty$ 

$$\theta(\xi) \simeq \xi^{-k} \left[ \left( k(k-1) \right)^{\frac{k}{2}} + A \xi^{\frac{2k-1}{2}} \cos G(\xi) \right]$$
 (34)

with 
$$G(\xi) = \frac{\sqrt{7-4k-4k^2}}{2} \operatorname{Log} \xi + \delta$$

Thus,  $\theta \to +\infty$ ,  $\theta^n \to 0$  and  $\theta^{n+1} \to 0$  when  $\xi \to +\infty$ . This result is the same as the one for cylindrical polytropes: in the absence of an external pressure, a spherical polytrope of index n < -1 extends to infinity. Its mass, proportional to  $\xi^2 \frac{d\theta}{d\xi}$ , is also infinite since

$$\xi^{2} \frac{d\theta}{d\xi} \simeq -k\xi^{-k+1} \left[ (k(k-1))^{\frac{k}{2}} + A\xi^{\frac{2k-1}{2}} \cos G(\xi) \right] + \xi^{\frac{1}{2}} \left[ \frac{A(2k-1)}{2} \cos G(\xi) - A \frac{\sqrt{7-4k-4k^{2}}}{2} \sin G(\xi) \right] \to +\infty$$

$$as \xi \to +\infty$$

## 4. RESULTS

Equation (2) was numerically integrated for a set of values of m and n (m=0, 1 and 2; n=-0.2, -0.5, -0.8, -1.2, -1.5, -2, -3, -4, -5, -10). The following quantities are tabulated in the tables 1 to 30 below:

colı	ımn 1: ξ	$\propto$	distance
colı	ımn 2: θ	$\propto$	temperature
colı	ımn 3: θ'	$\infty$	temperature gradient
colı	$amn 4: \theta^n$	$\infty$	density
colı	$1 \text{mn } 5: \theta^{n+1}$	$\infty$	pressure
colı	$amn 6: \mp \xi^m \theta'$	$\infty$	mass distribution: $\mathcal{M}(\xi)$

In these tables  $\theta$  and  $\theta'$  are correct to five places of decimals. The errors on the other quantities tabulated have been evaluated by using the formulae:

$$\frac{\Delta \theta^n}{\theta^n} = |n| \frac{\Delta \theta}{\theta} \tag{35}$$

$$\frac{\Delta \theta^{n+1}}{\theta^{n+1}} = |n+1| \frac{\Delta \theta}{\theta} \tag{36}$$

$$\frac{\Delta \mathcal{M}}{\mathcal{M}} = \frac{\Delta \theta'}{\theta'} \tag{37}$$

The last decimal place of these tabulated quantities is uncertain, except in the case of the first line of the tables where the boundary conditions (3) lead to an exact result.

The extension of the configurations, determined by the value  $\xi^*$  at which  $\theta^{n+1} = 0$ , is given in the last line of column 1. For polytropes of index -1 < n < 0,  $\xi^*$  is finite. For polytropes of index  $-\infty < n < -1$ , equation (2) was integrated up to  $\xi = 100$ , the last line of the corresponding tables gives the values of the quantities at the boundary, that is for  $\xi = +\infty$ , these values are found from the work of section (3).

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,θ,	0.0 0.0 0.100083 0.150282 0.251322 0.251322 0.251322 0.251322 0.458058 0.458058 0.4580058 0.4580058 0.458002 0.513127 0.555032 1.278103 1.27
θυ+1	1.000000 0.999374 0.999374 0.994353 0.994353 0.994353 0.994353 0.947353 0.947557 0.920184 0.947557 0.920184 0.947557 0.947557 0.949536 0.596631 0.596631 0.596631 0.596631 0.596631 0.596631 0.596631 0.596631 0.596631 0.59664 0.397021 0.397021 0.397021 0.397021 0.30552 0.06752
υθ	1.0000000 1.0000625 1.000625 1.0005677 1.005677 1.005677 1.0059379 1.0059379 1.0059379 1.0059379 1.0059379 1.0059379 1.0059379 1.0059379 1.0059379 1.0059379 1.006257 1.006257 1.006257 1.006257 1.006257 1.006257 1.006257 1.006257 1.006257 1.006257 1.00627 1.006257
Φ,	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Ф	10.000 00
יאנ	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
,θ.	0.00 0.00
θ n+1	1.000000 0.998999 0.995997 0.995996 0.995996 0.995986 0.995986 0.995589 0.995589 0.917857 0.87592 0.87592 0.694435 0.694435 0.694435 0.611299 0.611299 0.0131299 0.0131299 0.0131299 0.0131299 0.0131299 0.0131299 0.0131299 0.0131299 0.0131299 0.0131299 0.0131299 0.0131299 0.0131299 0.0131299 0.0131299
Θ	11.000000 12.000000 13.000266 13.0002066 14.0002066 15.000206
Φ	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Φ	0.000000000000000000000000000000000000
	878

Table 3 M=0; N=-0.8

C.O					
	1.00000	0.0	1.00000	1.000000	0.0
C.050	0.958749	-0.050016	1.00099	0.999749	0.050016
C.100	C.994996	-0.100133	1.00402	0.998997	0.100133
C.150	0.988733	-0.150453	1.00910	0.997736	0.150453
C.200	C.979946	-0.201080	1.01633	0.995956	0.201080
C.250	C.968618	-0.252124	1.02582	0.993643	0.252124
C.300	0.954724	-0.303704	1.03776	0.990776	0.303704
C•350	0.938236	-0.355944	1.05232	0.987330	0.355944
C•400 C•450	0.919117	-0.408985 -0.462979	1.06979	0.983273	0.408985
C.500	0.872800	-0.518100	1.09052 1.11498	0.973157	C.462979 C.5181CO
C.550	C. E45490	-0.574548	1.14370	0.966989	0.574548
C.600		-0.632554	1.17742	0.959987	0.632554
C.650		-0.692391	1.21713	0.952059	0.692391
0.700	C.746044	-0.754390	1.26411	0.943089	0.754390
C.750		-0.818953	1.32008	0.932931	0.818953
C.800		-0.886587	1.38744	0.921396	0.886587
C.850	0.618001	-0.957943	1.46962	0.908234	0.957943
C.900	C.568227		1.57173	0.893108	1.033880
(.950		-1.115579	1.70167		1.115579
1.000	0.456545	-1.204724	1.8723	0.854863	1.204724
1.020		-1.242998	1.9568	0.845495	1.242998
1.040		-1.283079	2.0533	0.835370	1.283079
1.060		-1.325237	2.1651	0.824374	1.325237
1.080 1.100		-1.369816 -1.417250	2.2961 2.4519	0.812360	1.369816
1.120		-1.468112	2.6405	0.784464	1.468112
1.140		-1.523174	2.8744	0.767993	1.523174
1.160		-1.583523	3.1732	0.749245	1.583523
1.180		-1.650751	3.5699	0.727501	1.650751
1.200		-1.727373	4.1265	0.701617	1-727373
1.210		-1.770444	4.5008	0.686552	1.770444
1.220		-1.817722	4.9747	0.669588	1.817722
1.230		-1.870428	5.5968	0.650149	1.870428
1.240		-1.930443	6.4564	0.627338	1.930443
1.250		-2.000930	5.9962	0.599627	2.000930
1.260 1.270		-2.087947 -2.205955	9.8794 14.396	0.564047	2.087947
1.280		-2.413251	32.875	0.41762	2.205955 2.413251
1.281		-2.448979	38.967	0.40024	2.448979
1.282		-2.492335	48.55	0.37881	2.492335
1.283		-2.548702	66.32	0.35039	2.548702
1.284		-2.633834	113.5	0.30627	2.633834
1,284989	0.0	-3.162276	+∞	0.0	3.162276

Table 4 M=0; N=-1.2

<b>\$</b>	θ	Θ΄	θ <sup>n</sup>	⊖ <sup>n+1</sup>	θ′
0.0	1.000000	0.0	1.000000	1.000000	0.0
0.1	1.004995	0.099800	0.994038	0.999003	0.099800
0.2	1.019920	0.198424	0.976607	0.996062	0.198424
0.3	1.044604	0.294781	0.948981	0.991310	0.294781
0.4	1.078770	0.387943	0.913030	0.98495C	0.387943
0.5	1.122061	0.477182	0.870923	0.977229	0.477182
0.6	1.174059	0.561995	0.824844	0.968416	0.561995
0.7	1.234303	0.642085	0.776772	0.958772	0.642085
0.8	1.302314	0.717338	0.728351	0.948542	0.717338
0.9	1.377610	0.787786	0.680844	0.937939	0.787786
1.0	1.459716	0.853568	0.635152	0.927142	0.853568
1.2	1.642556	0.972030	0.551284	0.905515	0.972030
1.4	1.847485	1.074841	0.478743	0.884471	1.074842
1.6	2.071600	1.164268	0.417284	0.864447	1.164268
1.8	2.312441	1.242414	0.365691	0.84564C	1.242414
2.0	2.567936	1.311103	0.322477	0.828100	1.311103
2.2	2.836354	1.371866	0.286211	0.811797	1.371867
2.4	3.116240	1.425967	0.255648	0.796661	1.425968
2.6	3.406366	1.474437	0.229747	0.782603	1.474427
2.8	3.705696	1.518121	0.207661	0.769530	1.518121
3.0	4.013342	1.557710	0.188708	0.757353	1.557710
3.2	4.328545	1.593776	0.172341	0.745987	1.593776
3.4	4.65C649	1.626789	0.158118	0.735355	1.626790
3.6	4.979084	1.657143	0.145686	0.725397	1.657143
3 • 9	5.313351	1.685164	0.134758	0.716021	1.685165
4.0	5.653013	1.711130	0.125101	0.707202	1.711131
4.2	5.997682	1.735276	0.116525	0.698881	1.735277
4.4	6.347016	1.757803	0.108872	0.691012	1.757803
4.6	6.700707	1.778878	0.102012	0.683558	1.778879
4.9	7.C58481	1.798654	0.095839	0.676484	1.798654
5.0	7.420090	1.817254	0.090262	0.669758	1.817255
5.5	8.339480	1.859320	0.078457	0.654292	1.859320
6.0	9.278532	1.896106	0.069027	0.640477	1.896106
6.5	1C.234879	1.928639	0.061362	0.628034	1.928640
7.0	11.206593	1.957690	0.055034	0.616744	1.957691
7.5	12.192088	1.983846	0.049740	0.606435	1.983846
8.0	13.190034	2.007565	0.045258	0.596967	2.007566
8.5	14.199309	2.029213	0.041426	0.588229	2.029213
9.0	15.218951	2.049080	0.038118	C.58C126	2.049080
9.5	16.248132	2.067403	0.035239	0.572584	2.067403
10.0	17.286130	2.084378	0.032716	0.565536	2.084379
11.0	19.386124	2.114908	0.028510	0.552715	2.114909
12.0	21.514700	2.141684	0.02516C	0.541318	2.141684
13.0	23.668488	2.165439	0.022438	0.531087	2.165439
14.0	25.844754	2.186719	0.020190	0.521825	2.186719
15.0	28.041241	2.205941	0.018308	0.513381	2.205942
16.0	30.256060	2.223430	0.016711	0.505635	2.223430
17.0	32.487610	2.239441	0.015344	0.498489	2.239441
18.0	34.734519 36.995602	2.254180	0.014160	0.491867	2.254180 2.267913
19.0		2.267813	0.013128	0.485702	2.267813
20.0	39.269824	2.280478	0.012221 0.008971	0.479941	2.280479
25.0	50.809561	2.332726		0.455838	2.332727
30.0	62.576141	2.372258 2.403688	0.006987	0.437238 0.422227	2.372259
35.0	74.518754		0.005666		2.403689
40.0	86.603811	2.429557	0.004731	0.409725	2.429557
45.0	98.807643	2.451400	0.004038	0.399063	2.451400
50.0	111.112779	2.470212	0.003508	0.389804	2.470212
55.0	123.505852	2.486659	0.003090	0.381647	2.486669
60.0	135.976346	2.501247	0.002753	0.374375	2.501248
65.0	148.515796	2.514300	0.002476	0.367828	2.514301
70.0	161.117258	2.526092	0.002246	0.361885	2.526092
75.0	173.774948	2.536821	0.002051	0.356453	2.536822
80.0	186.483976	2.546651	0.001884	0.351456	2.546651
85.0	199.240169	2.555705	0.001740	0.346836	2.555706
90.0	212.039919	2.564090	0.001615	0.342544	2.564090
95.0	224.880089	2.571885	0.001505	0.338539	2.571886
100.0	237.757920	2.579165	0.001408	0.334790	2.579165
+ ∞	+ ∞	√ <del>1</del> 0	0 • 0	0.0	√10

Table 5 M=0; N=-1.5

٤	θ	θ'	θ <sup>n</sup>	⊖ <sup>n+1</sup>	Θ'
0.0	1.00000	0.0	1.000000	1.000000	0.0
0.1	1.004993	0.099751	0.992555	0.997512	0.099751
0.2	1.019901	0.198035	0.970873	0.990195	0.198035
0.3	1.044506	0.293510	0.93677C	0.978462	0.293510
0.4	1.078472	0.385062	0.892866	0.962931	0.385062
0.5 0.6	1.121360 1.172666	0.471856 0.553358	0.842135 0.784477	0.944337 0.923448	0.471856 0.553358
0.7	1.231846	0.629306	0.731416	0.900993	0.629306
0.8	1.298341	0.699662	0.675953	0.877618	0.699662
0.9	1.371597	0.764565	0.622529	0.85386C	0.764565
1.0	1.451081	0.824268	0.572087	0.830145	0.824268
1.2	1.626750	0.929425	0.481968	0.784042	0.929425
1.4 1.6	1.821749 2.033060	1.018049 1.093005	0.406693 0.344964	0.740893 0.701333	1.018050 1.093006
1.8	2.258208	1.156798	0.294682	0.665453	1.156799
2.0	2.495174	1.211499	0.253716	0.633066	1.211500
2.2	2.742314	1.258780	0.220203	0.603867	1.258781
2.4	2.998282	1.299974	0.192615	0.577515	1.299975
2.6	3.261970	1.336141	0.169738	0.553681	1.336141
2•8 3•0	3.532460 3.808984	1.368120 1.396589	0.15062C 0.134519	0.532060 0.512383	1.369121 1.396590
3.2	4.090898	1.422091	0.120857	0.494413	1.422091
3.4	4.377653	1.445065	0.109178	0.477946	1.445065
3.6	4.668780	1.465871	0.099127	0.462805	1.465871
3.8	4.963876	1.484804	0.090420	0.448837	1.484805
4.0	5.262594	1.502113	0.082832	0.435913	1.502114
4.2 4.4	5.564627 5.869711	1.518001 1.532639	0.076180	0.423918	1.518001
4.6	6.177609	1.546172	0.070319 0.065128	0.412754 0.402336	1.532639 1.546173
4.8	6.488115	1.558727	0.060509	0.392591	1.558728
5.0	6.801042	1.570410	0.056381	0.383453	1.570410
5.5	7.592914	1.596360	0.047795	0.362907	1.596361
6.0	8.396773	1.618518	0.041099	0.345099	1.618518
6.5	9.210935	1.637688	0.035772	0.329494	1.637688
7.0 7.5	10.034062 10.865070	1.654459 1.669276	0.031461 0.027922	0.315690 0.303377	1.654459 1.669277
8.0	11.703071	1.682481	0.024977	0.292314	1.682481
8.5	12.547326	1.694332	0.022499	0.282308	1.694333
9.0	13.397213	1.705042	0.020392	0.273207	1.705042
9.5	14.252205	1.714774	0.018585	0.264885	1.714775
10.0	15.111849	1.723667	0.017022	0.257241	1.723668
11.0 12.0	16.843574 18.589812	1.739357 1.752788	0.014466 0.012476	0.243659 0.231932	1.739357 1.752788
13.0	20.348560	1.764444	0.010894	0.221683	1.764445
14.0	22.118228	1.774676	0.009613	0.212630	1.774677
15.0	23.897528	1.783747	0.008559	0.204561	1.783747
16.0	25.685402	1.791855	0.007681	0.197313	1.791855
17.0	27.480969	1.799155	0.006941	0.190758	1.799156
18.0 19.0	29.283487 31.092323	1.805774	0.006310	0.184794	1.805774 1.811807
20.0	32.906933	1.811807 1.817333	0.005767 0.005297	0.179338 0.174323	1.817334
25.0	42.051984	1.839338	0.003667	0.154207	1.839339
30.0	51.290090	1.855121	0.002722	0.139631	1.855121
35.0	6C.596951	1.867124	0.002119	0.128461	1.867124
40.0	69.957202	1.876635	0.001709	0.119559	1.876635
45.0 50.0	79.360418	1.884405	0.001414	0.112253	1.884406
50.0 55.0	88.799151 98.267866	1.890903 1.896441	0.001195 0.001026	0.106119 0.100877	1.890904 1.896441
60.0	107.762318	1.901230	0.001020	0.096331	1.901230
65.0	117.279173	1.905422	0.000787	0.092339	1.905423
70.0	126.815752	1.909135	0.000700	0.088800	1.909135
75.0	136.369867	1.912450	0.000627	0.085632	1.912450
80.0	145.939704	1.915434	0.000567	0.082777	1.915434
85.0 90.0	155.723141 165.120683	1.918138 1.920602	0.000515 0.000471	0.080186 0.077821	1.918138 1.920602
95.0	174.729420	1.922859	0.000471	0.075651	1.922860
100.0	184.348991	1.924939	0.000399	0.073681	1.924940
+ 00	+00	2.0	0.0	0.0	2.0

Table 6 M=0; N=-2

ξ	θ	θ'	θ'n	⊖ <sup>n+1</sup>	θ'	
0.0	1.000000	0.0	1.000000	1.000000	0.0	
0.1	1.004991	0.099668	0.990090	0.995033	0.099668	
0.2	1.019868	0.197390	0.961416	0.980518	0.197390	
0.3	1.044346	0.291421	0.916876	0.957536	0.291421	
0.4	1.077983	0.380372	0.860550	0.927658	0.380672	
C.5	1.120219	0.463287	0.796881	0.892582	0.463287	
0.6	1.170421	0.539642	0.729987	0.854393	0.539642	
0.7	1.227923	0.609289	0.663219	0.814382	0.609289	
0.8	1.292060	0.672372	0.599010	0.773957	0.672372	
0.9	1.362190	0.729229	0.538919	0.734111	0.729229	
1.0	1.437714	0.780322	0.483787	0.695548	0.780322	
1.2	1.602789	0.867280	0.389266	0.623912	0.867280	
1.4	1.783500	0.937341 0.994125	0.314378 0.255891	0.560694	0.937341	
1.6	1.976842	1.040559	0.210330	0.505857 0.458618	0.994125 1.040559	
1.8 2.0	2.180462 2.392528	1.078918	0.174697	0.417967	1.078918	
2.2	2.611607	1.110940	0.146616	0.382905	1.110940	
2.4	2.836571	1.137945	0.124243	0.352538	1.137946	
2.6	3.066519	1.160945	0.106342	0.326102	1.160945	
2.8	3.300733	1.180709	0.091786	0.302962	1.180709	
3.0	3.538627	1.197835	0.079860	0.282595	1.197835	
3.2	3.779723	1.212790	0.069997	0.264596	1.212790	
3.4	4.023623	1.225942	0.061768	0.248532	1.225942	
3.6	4.265999	1.237583	0.054845	0.234192	1.237584	
3.8	4.518572	1.247951	0.048977	0.221308	1.247951	
4.0	4.769107	1.257232	0.043966	0.209682	1.257232	
4.2	5.021403	1.265584	0.039659	0.199147	1.265584	
4.4	5.275288	1.273134	0.035934	0.189563	1.273135	
4.6	5.530611	1.279989	0.032692	0.180811	1.279990	
4.9	5.787243	1.286239	0.029857	0.172793	1.286239	
5.2	6.045071	1.291956	0.027365	0.165424	1.291956	
5.5	6.694244	1.304314	0.022314	0.149382	1.304314	
6.0 6.5	7.349021 8.008445	1.314478 1.322974	0.018515 0.015592	0.136072 0.124868	1.314478 1.322975	
7.0	8.671781	1.330174	0.013397	0.124866	1.330175	
7.5	9.338450	1.336349	0.013297	0.107084	1.336350	
8.0	10.007993	1.341700	0.009984	0.099920	1.341700	
8.5	10.680038	1.346377	0.008767	0.093632	1.346378	
9.0	11.354279	1.350500	0.007756	0.088072	1.350501	
9.5	12.030462	1.354161	0.006909	0.083122	1.354162	
10.0	12.708376	1.357431	0.006191	0.078688	1.357432	
11.0	14.068700	1.363026	0.005052	0.071078	1.363026	
12.0	15.434099	1.367631	0.004197	0.064791	1.367631	
13.0	16.803713	1.371487	0.003541	0.059510	1.371487	
14.0	18.176881	1.374761	0.003026	0.055014	1.374761	
15.0	19.553083	1.377575	0.002615	0.051142	1.377575	
16.0	20.931908	1.380017	0.002282	0.047773	1.380018	
17.0	22.313020	1.382158 1.384050	0.002008	0.044816	1.382159	
18.0	23.696144		0.001780	0.042200	1.384051	
19.0 20.0	25.081052 26.467552	1.395733 1.387239	0.001589 0.001427	0.039870 0.037782	1.385733 1.387240	
25.0	33.418983	1.392893	0.000895	0.029923	1.392893	
30.0	40.393296	1.396598	0.000612	0.024756	1.396598	
35.0	47.383165	1.399210	0.000445	0.021104	1.399210	
40.0	54.384290	1.401151	0.000338	0.018387	1.401151	
45.0	61.393940	1.402648	0.000265	0.016288	1.402648	
50.0	68.410265	1.403838	0.000213	0.014617	1.403839	
55.0	75.431961	1.404807	0.000175	0.013256	1.404808	
60.0	82.458069	1.405610	0.000147	0.012127	1.405611	
65.0	89.487867	1.406288	0.000124	0.011174	1.406289	
70.0	56.520797	1.406868	0.000107	0.010360	1.406868	
75.0	103.556418	1.407368	0.932E-04	0.009656	1.407368	
80.0	110.594375	1.407804	0.817E-04	0.009042	1.407805	
85.0	117.634381	1.408189	0.722E-04	0.008500	1.408189	
90.0	124.676196	1.408529	0.643E-C4	0.008020	1.408530	
95.0	131.719622	1.408834	0.576E-04	0.007591	1.408834	
100.0	138.764492	1.409107	0.519E-04	0.007206	1.409108	
+ 00	+ ∞	√2	0.0	0.0	<b>√</b> 2	

Table 7 M = 0; N = -3

٤	θ	Θ'	$\theta^{\mathbf{n}}$	⊖ <sup>n+1</sup>	θ΄	
0.0	1.000000	0.0	1.000000	1.000000	0.0	
0.1	1.004987	0.099503	0.985185	0.999099	0.099503	
0.2	1.019803	0.196116	0.942866	0.961538	0.196116	
0.3	1.044030	0.287347	0.878739	0.917431	0.287347	
C • 4	1.077032	0.371390	0.800410	0.862068	0.371390	
0.5	1.118033	0.447213	0.715141	0.800000	0.447213	
0.6	1.166190	0.514495	0.630509	0.735294	0.514495	
0.7	1.220655	0.573462	0.549820	0.671140	0.573462	
0.8 0.9	1.280624 1.345362	0.624694 0.668964	0.476139 0.410659	0.609756 0.552486	0.624694 C.668964	
1.0	1.414213	0.707106	0.353553	0.500000	0.707106	
1.2	1.562049	0.768221	0.262370	0.409836	0.768221	
1.4	1.720464	0.813733	0.196364	0.337837	0.813733	
1.6	1.886795	0.847998	0.148876	0.280898	0.847998	
1.8	2.059125	0.874157	0.114538	0.235849	0.874157	
2.0	2.236067	0.894427	0.089442	0.200000	0.894427	
2.2	2.416608	0.910366	0.070856	0.171232	0.910366	
2.4	2.599999	0.923076	0.056895	0.147929	0.923076	
2.6	2.785677	0.933345	0.046260	0.128866	0.933345	
2.8	2.973213	0.941741	0.038047	0.113122	0.941741	
3.0	3.162277	0.948683	0.031622	0.100000	0.948683	
3.2	3.352610	C. 954479	0.026536	0.088968	0.954479	
3.4	3.544008	0.959365	0.022465	0.079617	0.959365	
3.6	3.736307	0.963517	0.019172	0.071633	0.963517	
3.8	3.929375	0.967074	0.016482	0.064766	0.967074	
4.0	4.123104	0.970142	0.014266	0.058823	0.970142	
4.2	4.317405	0.972806	0.012426	0.053648	0.972806	
4.4	4.512204	0.975132	0.010885	0.049115	0.975132	
4.6 4.8	4.707439 4.903059	0.977176 0.978980	0.009586 0.008483	0.045126 0.041597	0.977176 0.978980	
5.0	5.099018	0.980580	0.007542	0.038462	0.980580	
5.5	5.590168	0.983869	0.005724	0.032000	0.983869	
6.0	6.082761	0.986393	0.004443	0.027027	0.986393	
6.5	6.576471	0.988371	0.003515	0.023121	0.988371	
7.0	7.071066	0.989949	0.002828	0.020000	0.989949	
7.5	7.566371	0.991227	0.002308	0.017467	0.991227	
8 • C	8.062255	0.992277	0.001908	0.015384	0.992277	
8.5	8.558619	0.993150	0.001595	0.013651	0.993150	
9.0	9.055383	0.993883	0.001346	0.012195	0.993883	
9.5	9.552484	0.994505	0.001147	0.010958	0.994505	
10.0	10.049873	0.995037	0.000985	0.009900	0.995037	
11.0	11.045358	0.995893	0.000742	0.008196	0.995893	
12.0	12.041591	0.996545	0.000572	0.006896	0.996545	
13.0	13.038401	0.997054	0.000451	0.005882	0.997054	
14.0	14.035665	0.997458	0.000361 0.000294	0.005076 0.004424	0.997458 0.997785	
15.0	15.033292	0.997785 0.998052	0.000244	0.000891	0.998052	
16.0 17.0	16.031215 17.029382	0.998274	0.000202	0.003448	0.998274	
18.0	18.027752	0.998460	0.000170	0.003076	0.998460	
19.0	1.9.026293	0.998617	0.000145	0.002762	0.998617	
20.0	20.024979	0.998752	0.000124	0.002493	0.999752	
25.0	25.019985	0.999200	0.638E-C4	0.001597	0.999200	
30.0	30.016654	0.999444	0.369E-04	0.001109	C.999444	
35.0	35.014274	0.999592	0.232E-04	0.000815	0.999592	
40.0	40.012488	0.999687	0.156E-C4	0.000624	0.999687	
45.0	45.011098	0.999753	0.109E-C4	0.000493	0.999753	
50.0	50.009986	0.999800	0.799E-05	0.000399	0.999800	
55 <b>.</b> 0	55.009076	0.999834	0.600E-C5	0.000330	0.999834	
60.0	60.008318	0.999861	0.462E-05	0.000277	0.999861	
65.0	65.007676	0.999881	0.364E-05	0.000236	0.999881	
70.0	70.007125	0.999897	0.291E-05	0.000204	0.999897	
75.0	75.006648	0.999911	0.236E-05	0.000177	C.999911	
80.0	80.006230	0.999921	0.195E-05	0.000156	0.999921	
85.0	85.005861	0.999930	0.162E-05	C.000138	0.999930	
90.0	90.005533	0.999938	0.137E-05	0.000123	0.999938 0.999944	
95.0 100.0	95.005239	0.999944 0.999949	0.116E-05	0.000110	0.999944	
	100.004975 +∞	1.0	0.999E-06 0.0	0.000100	1.0	
+ ∞	+ ₩	1.0	0.0	0.0	1.0	

Table 8 M=0; N=-4

ξ	θ	θ′	$\Theta^{\mathbf{n}}$	⊖ <sup>n+1</sup>	Θ′
0.0	1.00000	0.0	1.000000	1.000000	0.0
0.1	1.004983	0.099339	0.980312	0.985197	0.099339
0.2	1.019739	0.194851	0.924788	0.943043	0.194861
0.3	1.043721	0.283408	0.842676	0.879519	0.283408
0.4	1.076118	0.362901	0.745692	0.802453	0.362901
0.5	1.115968	0.432418	0.644750	0.719521	0.432418
0.6 0.7	1.162270 1.214058	0.491995 0.542321	0.547989 0.460299	0.636911 0.558831	0.491995 0.542321
0.8	1.270460	0.584431	0.383844	0.487659	0.584431
0.9	1.330709	0.619475	0.318908	0.424375	0.619475
1.0	1.394157	0.648571	0.264699	0.369032	0.648571
1.2	1.528567	0.692824	0.183172	0.279992	0.692824
1.4	1.67C394	0.723621	0.128446	0.214557	0.723621
1.6	1.817418	0.745392	0.091660	0.166584	0.745392
1.8	1.968147	0.761065	0.066645	0.131167	0.761065
2•0 2•2	2.121567 2.276979	0.772562 0.781149	0.049359 0.037201	0.104719 0.084707	0.772562 0.781149
2.4	2.433890	0.787672	0.028496	0.069358	0.787672
2.6	2.591949	0.792705	0.022156	0.057427	0.792705
2.8	2.750899	0.796644	0.017462	0.048036	0.796644
3.0	2.910552	0.799767	0.013934	0.040557	0.799767
3.2	3.070765	0.802273	0.011246	0.034535	0.802273
3.4	3.231430	0.804306	0.009171	0.029635	0.804306
3.6	3.392463	0.805972	0.007549	0.025612	0.805972
3.8	3.553800	0.807349	0.006269	0.022280	0.807349
4.0 4.2	3.715388 3.877186	0.808497 0.809461	0.005247 0.004425	0.019497 0.017157	0.808497 0.809461
4.4	4.039162	0.810277	0.003756	0.015174	0.810277
4.6	4.201289	0.810972	0.03209	0.013485	0.810972
4.8	4.363545	0.811568	0.002758	0.012035	0.811568
5.0	4.525911	0.812081	0.002383	0.010786	0.812081
5.5	4.932217	C.813086	0.001689	0.008334	0.813086
6.0	5.338951	0.813809	0.001230	0.006571	0.813809
6.5	5.745995	0.814341	0.000917 0.000697	0.005271	0.814341
7.0 7.5	6.153271 6.560722	0.814742 0.815049	0.000539	0.004292 0.003541	C.814742 O.815049
8.0	7.049840	0.815330	0.000404	0.002854	0.815330
8.5	7.376003	0.815478	0.000337	0.002491	0.815478
9.0	7.783781	0.815630	0.000272	0.002120	0.815630
9.5	8.191628	0.815753	0.000222	0.001819	0.815753
10.0	8.599531	0.815854	0.000182	0.001572	0.815854
11.0	9.415466	0.816007	0.000127	0.001198	0.816007
12.0 13.0	10.231530 11.047687	0.816115 0.816193	0.912E-04 0.671E-C4	0.000933 0.000741	0.816115 0.816193
14.0	11.863911	0.816252	0.504E-04	0.000598	0.816252
15.0	12.680186	0.816296	0.386E-C4	0.000490	0.816296
16.0	13.496500	0.816330	0.301E-04	0.000406	0.816330
17.0	14.312844	0.816357	0.238E-C4	0.000341	0.816357
18.0	15.129212	0.816378	0.190E-04	0.000288	0.816378
19.0	15.945600	0.816395	0.154E-C4	0.000246	0.816395
20.0	16.762002	0.816409 0.816451	0.126E-04 0.529E-05	0.000212	0.816409
25.0 30.0	2C.844170 24.926479	0.816470	0.529E-05	0.000110 0.645E-04	0.816451 0.816470
35.0	29.008856	0.816479	0.259E-05	0.409E-04	0.816479
40.0	33.091269	0.816485	0.833E-C6	0.407E-04	0.816485
45.0	37.173704	0.816488	0.523E-06	0.194E-04	0.816488
50.0	41.256152	0.816490	0.345E-C6	0.142E-C4	0.816490
55.0	45.338608	0.816492	0.236E-06	0.107E-04	0.816492
60.0	49.421071	0.816493	0.167E-06	0.828E-C5	0.816493
65.0	53.503538	0.816493	0.122E-06	0.652E-05	0.816493
70.0	57.586CC8	0.816494	0.909E-07	0.523E-05	0.816494
75.0 80.0	61.668481 65.950755	0.816494 0.816495	0.691E-07 0.535E-07	0.426E-05 0.351E-05	0.816494 0.816495
85.0	69.833430	0.816495	0.420E-07	0.391E-05	0.816495
90.0	73.915907	0.816495	0.3356-07	0.247E-C5	0.816495
95.0	77.998384	0.816495	0.270E-07	0.210E-05	0.816495
100.0	82.080862	0.816495	0.220E-07	0.180E-05	0.816495
+ ∞	+ ∞	$\sqrt{\frac{2}{3}}$	0.0	0.0	$\sqrt{\frac{2}{3}}$
		<b>A</b> 3			A 3

Table 9 M = 0; N = -5

ξ	Θ	Θ'	$\Theta_{\mathbf{u}}$	θ <sup>n+1</sup>	Θ'
0.0	1.000000	0.0	1.000000	1.00000C	0.0
0.1	1.004979	0.099176	0.975471	0.980328	0.099176
0.2	1.019676	0.193625	0.907168	0.925018	0.193625
0.3	1.043420	0.279596	0.808544	0.843651	0.279596
0.4	1.075237	0.354866	0.695790	0.748139	0.354866
0.5	1.114012	C.418753	0.582840	0.649291	0.418753
0.6	1.158623	0.471741	0.478947	0.554919	0.471741
G.7	1.208036	0.515000	0.388687	0.469548	0.515000
C.8	1.261347	0.549973	0.313202	0.395057	0.549973
0.9	1.317803	0.578105	0.251621	0.331587	0.578105
1.0	1.376784	C.600701	0.202148	0.278314	0.600701
1.2	1.500441	0.633522	0.131493	0.197298	0.633522
1.4	1.629445	0.655036	0.087056	0.141853	0.655036
1.6	1.761984	0.669421	0.058882	0.103750	0.669421
1.8	1.896912	0.679251	0.040715	0.077234	0.679251
2.0	2.033488	0.686118	0.028760	0.058483	0.686118
2.2	2.171228	0.691015	0.020723	0.044996	0.691015
2.4	2.309806	0.694574	0.015209	0.035131	0.694574
2.6	2.448997	0.697208	0.011351	0.027800	0.697208
2.8	2.588646	0.699189	0.008602	0.022269	0.699189
3.0 3.2	2.728641 2.868903	0.700699 0.701868	0.006611 0.005145	0.018039 0.014761	0.700699 0.701868
3 • 4 3 • 4	3.009372	0.702782	0.005145	0.012192	0.762782
3.6	3.15CC03	C. 703506	0.003224	0.010156	0.703506
3.8	3.290765	0.704085	0.002591	0.008527	0.704085
4.0	3.431630	0.704552	0.002101	0.007211	0.704552
4.2	3.572580	0.704933	0.001718	0.006138	0.704933
4.4	3.713599	0.705245	0.001415	0.005257	0.705245
4.6	3.854674	0.705503	0.001175	0.004529	0.705503
4.8	3.995597	0.705718	0.000981	0.003922	0.705718
5.0	4.136959	0.705898	0.000825	0.003414	C.7C5898
5.5	4.485999	0.706236	0.000547	0.002460	0.706236
6.0	4.843177	0.706463	0.000375	0.001817	0.706463
6.5	5.196451	0.706621	0.000263	0.001371	0.706621
7.0	5.549791	0.706733	0.000189	0.001054	0.706733
7.5	5.903180	0.706815	0.000139	0.000823	0.706815
8.0	6.256603	0.706876	0.000104	0.000652	0.706876
8.5	6.610053	0.706921	0.792E-04	0.000523	0.706921
9.0	6.963523	0.706956	0.610E-C4	0.000425	0.706956
9.5	7.317008	0.706983	0.476E-C4	0.000348	0.706983
10.0 11.0	7.67C505 8.377526	0.707004 0.707035	0.376E-C4 0.242E-C4	0.000288 0.000203	0.707004 0.707035
12.0	9.084572	0.707054	0.161E-04	0.000146	0.707054
13.0	9.791633	0.707068	0.111E-04	0.000108	0.707068
14.0	10.498707	0.707077	0.784E-05	0.823E-04	0.707077
15.0	11.205788	0.707084	0.565E-05	0.634E-04	0.707084
16.0	11.912874	0.707089	0.416E-C5	0.496E-04	0.707089
17.0	12.619965	0.707092	0.312E-05	0.394E-04	0.707092
18.0	13.327059	0.707095	0.2378-05	0.317E-04	0.707095
19.0	14.034156	0.707097	0.183E-05	0.257E-04	0.707097
20.0	14.741254	0.707099	0.143E-05	0.211E-04	0.707099
25.0	18.276763	0.707103	0.490E-C6	0.896E-05	0.707103
30.0	21.812285	0.707105	0.202E-06	0.441E-05	0.707105
35.0	25.347812	0.707105	0.955E-C7	0.242E-05	0.707105
40.0	28.883342	0.707106	0.497E-07	0.143E-05	0.707106
45.0	32.418873	0.707106	0.279E-C7	0.9058-06	0.707106
50.0	35.954405	0.707106	0.166E-07	0.598E-06	0.707106
55.0	39.489937	0.707106	0.104E-07	0.411E-06	0.707106
60.0	43.025470	0.707106	0.678E-C8	0.291E-06	0.707106
65.0	46.561002	0.707106	0.456E-08	0.212E-06	0.707106
70.0 75.0	50.096535	0.707106	0.316E-08	0.158E-06	0.707106
75•0	53.632068	0.707106	0.2255-08	C.120E-06	0.707106
80.0	57.167601	0.707106	0.163E-C8	0.936E-07	0.707106
85.0 80.0	60.703134 64.238667	0.707106 0.707106	0.121E-C8	0.736E-07	0.707106 0.707106
90.0 95.0	67.774200	0.707106	0.914E-09	0.587E-07	0.707106
100.0	71.309733	0.707106	0.699E-09 0.542E-09	0.473E-07 0.386E-07	0.707106
	11.369133		0.5426-69	0.3865-07	
+∞	+ω	$\frac{\sqrt{2}}{2}$	0.0	0.0	$\frac{\sqrt{2}}{2}$
		-			-

Table 10 M=0; N=-10

ξ	θ	θ'	<b>⊖</b>	⊖ <sup>n+1</sup>	θ΄	
C•0	1.000000	0.0	1.00000	1.00000	0.0	
0.1	1.004958	0.098368	0.95173	0.95645	0.098368	
0.2	1.019369	0.187718	0.82543	0.84142	0.187718	
0.3	1.042003	0.262246	0.66268	0.69052	0.262246	
0.4	1.071267	0.320358	0.52236	0.53816	0.320358	
0.5	1.105576	0.363553	0.36653	0.40522 0.29895	0.363553 0.394698	
0.6	1.143576 1.184214	0.394698 0.416776	0.26142 0.18437	0.21833	0.416776	
0.7 0.8	1.226714	0.432314	0.12958	0.15896	0.432314	
0.9	1.270524	0.443240	0.09123	0.11591	0.443214	
1.0	1.315256	0.450949	0.06455	0.08489	0.450949	
1.2	1.406488	0.460331	0.03300	0.04642	0.460331	
1.4	1.499092	0.465199	0.01744	0.02615	0.465199 0.467811	
1.6	1.592420	0.467811 0.469260	0.00953 0.00538	0.01518 0.00907	0.469260	
1.8 2.0	1.686140 1.780083	C.470089	0.00313	0.00557	0.470089	
2.2	1.874154	0.470577	0.00187	0.00350	0.470577	
2.4	1.968301	0.470872	0.00114	0.00225	0.470872	
2.6	2.062495	0.471055	0.717E-03	0.00148_	0.471055	
2.8	2.156719	0.471170	0.459E-C3	0.990E-03	0.471170	
3.0	2.250961	0.471245	0.299E-03	0.674E-03	0.471245 0.471294	
3.2 3.4	2.345215 2.439478	0.471294 0.471327	0.198E-03 0.133E-03	0.465E-03 0.326E-03	0.471327	
3•4 3•6	2.533745	0.471349	0.917E-04	0.232E-03	0.471349	
3.8	2.628017	0.471365	0.636E-C4	0.167E-03	0.471365	
4.0	2.722291	0.471375	0.447E-04	0.121E-03	0.471375	
4.2	2.816 <del>56</del> 7	0.471383	0.318E-C4	0.896E-04	0.471383	
4.4	2.910844	0.471388	0.228E-04	0.666E-04	0.471388 0.471392	
4.6	3.005122	0.471392 0.471395	0.166E-04 0.122E-04	0.500E-04 0.378E-04	0.471395	
4.8 5.0	3.099401 3.193681	0.471397	0.905E-05	0.289E-04	0.471397	
5.5	3.429380	0.471400	0.444E-05	0.152E-04	0.471400	
6.0	3.665081	0.471402	0.228E-05	0.838E-05	0.471402	
6.5	3.900783	0.471403	0.122E-05	0.478E-05	0.471403	
7.0	4.136484	0.471403	0.681E-06	0.282E-05	0.471403 0.471404	
7.5	4.372186	C.471404 O.471404	0.391E-06 0.231E-06	0.171E-C5 0.106E-05	0.471404	
8.0 8.5	4.607888 4.843590	0.471404	0.140E-C6	0.681E-C6	0.471404	
9.0	5.079293	0.471404	0.874E-C7	0.444E-06	0.471404	
9.5	5.314995	0.471404	0.555E-C7	0.295E-06	0.471404	
10.0	5.550697	0.471404	0.360E-07	0.199E-06	0.471404	
11.0	6.022101	0.471404	0.159E-C7	0.959E-07	0.471404	
12.0	6.493506	0.471404 0.471404	0.750E-08 0.372E-08	0.487E-07 0.259E-07	0.471404 0.471404	
13.0 14.0	6.964910 7.436315	0.471404	0.193E-08	0.143E-07	0.471404	
15.0	7.907719	0.471404	0.104E-08	0.827E-08	0.471404	
16.0	8.379123	0.471404	0.586E-C9	0.491E-08	0.471404	
17.0	8.850528	0.471404	0.339E-09	0.300E-08	0.471404	
18.0	9.321937	0.471404	0.201E-09	0.188E-08	0.471404	
19.0	9.793337	0.471404	0.123E-09 0.770E-10	0.120E-08 0.790E-09	0.471404 0.471404	
20•0 25 0	10.264741 12.621763	0.471404 0.471404	0.974E-11	0.123E-09	0.471404	
25.0 30.0	14.978785	0.471404	0.175E-11	0.263E-10	0.471404	
35.0	17.335807	0.471404	0.407E-12	0.707E-11	0.471404	
40.0	19.692829	0.471404	0.114E-12	0.224E-11	0.471404	
45.0	22.049851	0.471404	0.368E-13	0.811E-12	0.471404	
50.0	24.406873	0.471404	0.133E-13	0.325E-12 0.141E-12	0.471404 0.471404	
55.0 60.0	26.763895 29.120917	0.471404 0.471404	0.530E-14 0.228E-14	0.663E-13	0.471404	
60.0 65.0	21.477940	0.471404	0.104E-14	0.329E-13	0.471404	
70.0	33.834962	0.471404	0.508E-15	0.172E-13	0.471404	
75.0	36.191884	0.471404	0.259E-15	0.938E-14	0.471404	
80.0	38.549006	0.471404	0.137E-15	0.531E-14	0.471404	
85.0	40.906028	0.471404	0.762E-16	0.311E-14	0.471404 0.471404	
90.0	43.263050	0.471404 0.471404	0.435E-16 0.256E-16	0.188E-14 0.116E-14	0.471404	
95.0 100.0	45.62CC72 47.977094	0.471404	0.1546-16	0.742E-15	0.471404	
+∞	+∞	<u>√2</u>	0.0	0.0		
Ŧ <b>3</b> 0	. —	3		-	$\frac{\sqrt{2}}{3}$	
		•				

θ <sup>n+1</sup> -ξθ'	0.0000000000000000000000000000000000000	998748	.997181	992141	988653	984508	976692	1664/6	961987	953388	946946	932696	925611	914648	101206	875997	86098	.844789	827304	787991	765862	741827	68695	65537	.62032	58103	48437	42199	34247	32329	27972	25436	.22547	19133	14808	08144	0440	04303	01480	0.	
θu	1.000000 1	1.001251 0	1.002826 0	1.007920 0	1.011476 0	1.015735 0	1.020727 0	1.026491 0	1.04051 0	1.048899	1.058263 0	1.068722 0	1.080366 0	1.093315 0	1.123724 0	1-141556 0	1.161454 0	1.183725 0	1.208744 0	1.269048 0	1.305716 0	1.348022 0	1.397367 0	1.52584 0	1.61204 0	1.72108 0	2.06450 0	2,36969 0	2,91995 0	3.0931 0	3,5748	3.5312 0	4.4349 0	5.2263 0	6.7527 0	12.241	17.000	23.22	67.39	+	
,θ	Ö	Ö	9	9 6	9	Ŷ	P	ř	9		9	0	Ŷ	o'	P		Ŷ	Ŷ	o o		Ö	9	o a	9	P	ç,	77	7	7	7	77	7	7	7	7	ď.	-i -	-	7	Ę.	
Φ	•	0.957499	0.994371	446486.0	0.977436	0.969256	0.959796	C.54904B	0.536999	0.00.20.0	0.892919	C.875528	0.856756	0.836581	0.814977	0.767371	0.741301	0.713669	0.684432	0.653538	0.586546	C.550307	0.512127	0.429514	0.384807	0.337596	0.234622	0.178078	0.117285	0.104516	0.031511	0.064703	0.050840	609960*0	.0219	•0066	26030	0018	0005	32 0.0	
מע	0 0	001.00	C.150	0.250	C.300	0.350	C.400	C.450	0.500	000	C*650	002.0	0.750	C*800	0.850	0.430	1.000	1.050	1.100	1.200	1.250	1.300	1.350	1.450	1.500	1.550	1.650	1.700	1.750	1.760	1.780	1.790	1.800	1.810	1.820	1.830	1.6951	1.833	1.834		
- ξθ,	0.0000000000000000000000000000000000000	0	0	<b>&gt;</b> C	0	0	0	o (	00	Ó	0	0	O	o ·	o o	o c	Ö	0	0	00	Ö	_	ř.	4	-	, i		-	-	ď,	Ň٠	ĭΝ	Š	Ň	õ	ďι	v	ن د	10	Š	2.304270
θ "+1	1.000000 0.999499 0.997999	_	_	_	,	_	_			-	_	$\sim$	_	_		-		_	0		_	_		_	-	•		_	_	٠,	_	_		_	_	٠,	_ \	_		_	0.0
uΘ	1.000000	-				-	=	-		-	-	7	-	=		-	-	-	-			-		-	-	-	-4 -	7	:			-		2.1	2.3	20	,	4 6	, (1)	3.0	8
,θ	0.0 -0.025001 -0.050012	-0.1001	-0.1251	-0.1203 -0.1755	-0.2008	-0.2261	-0.2516	-0.2771	-0.3028	70.3560	-0.3806	-0.4068	-0.4333	-0.4600	-0.4869	-0.5415	-0.5693	-0.5974	-0.6259	-0.6548	-0.7142	-0.7448	-0.7761	-0.8413	-0.8756	-0.9112	-0.9486	-1.0313	-1.0793	-1.0898	-1.1007	-1.1747	-1.1372	-1.1513	-1.1675	-1.1771	-1.1795	-1.1839	-1-1866	-1.1896	933
Ф	1.00000 0.999374 0.957499	585	984	- 0	959	949	937	924	505	70	- 60	83	18.	795	2	7.00	692	66	63	000	100	49	10.4	1	333	286	100	14	.091	080	9 6	2	03	. C2	.01	õ	5		00	0.00	710.
	050	25	25	סיי	6	45	50	ຕິ	9	9 6		ဆိ	85	6	9	3 6	2	-	2	2,5	נים נ	4.	4	ָה הַּ	9	9	7.6	ĕ	80	8	, o	ŏα	ŏ	6	6	6	2, 0	, 0	6	.930	ຫຼ

Table 13 M=1; N=-0.8

<u> </u>	θ	θ'	θ <sup>n</sup>	⊖ <sup>n+1</sup>	-ξ θ'
0.0	1.00000	0.0	1.00000	1.000000	0.0
C.0			1.00050	0.999874	0.001250
Ç.1			1.00200	0.999499	0.605065
0.1			1.00451	0.998871	0.011275
C.2			1.00808	0.997987	0.020080
C.2 C.3			1.01271 1.01845	0.996845 0.995438	0.031447 0.045411
C.3			1.02535	0.993759	0.062017
0.4			1.03346	0.991801	0.081318
C.4			1.04289	0.989553	0.103380
C.5			1.05371	0.987005	0.128276
C.5	50 C.923186	-0.283813	1.06601	0.984142	0.156096
0.6			1.0799€	0.980948	0.186944
C.6			1.09571	0.977405	0.220938
C.7			1.11344	0.973491	0.258216
C.7 C.8			1.13338 1.15580	0.965182 0.964446	0.298937 0.343286
C.8			1.18106	0.959250	0.391479
(.9			1.20953	0.953552	0.443767
C.9			1.24177	0.947304	0.500445
1.0		-0.561862	1.27837	0.940448	0.561862
1.0	0.706653	-0.598509	1.32018	0.932913	0.628434
1.1	00 C.675774	-0.636968	1.36821	0.924613	0.700665
1.1	50 0.642921	-0.677935	1.42388	0.915443	0.779165
1.2			1.48897	0.905269	C.864692
1.2			1.56603	0.893920	0.958199
1.3			1.65862	0.881175	1.060910
1.3 1.4			1.7718 1.9140	0.966733 0.850181	1.174439 1.300982
1.4			2.0977	0.830919	1.443643
1.5			2.3456	0.808031	1.607057
1.5			2.7014	0.780008	1.798660
1.6			3.2623	0.744078	2.031712
1.6		-1.414706	4.3068	0.694156	2.334266
1.7			7.1636	0.611245	2.789745
1.7			8.5311	0.585122	2.922714
1.7			10.797	0.551644	3.086615
1.7			15.46 33.12	0.50422	3.3074C5 3.684O68
1.74 1.74			38.44	0.41680 0.40158	3.746116
1.7			46.32	0.38329	3.819436
1.7			59.45	0.36011	3.910479
1.7			86.68	0.32771	4.034432
1.7	45 0.001415	-2.435103	190.19	0.26920	4.249255
1.7	15560 0.0	-2.935681	+∞	0.0	5.124409
*					

Table 14 M=1; N=-1.2

ţ	θ	Θ′	⊖n	⊖ <sup>n+1</sup>	₹ Ө′	
0.0	1.00000	0.0	1.000000	1.000000	0.0	
0.1	1.002498	0.049925	0.997010	0.999501	0.004992	
0.2	1.009970	0.C99405	0.988165	0.998017	0.019881	
0.3	1.022350	0.148016	0.973823	0.995588	0.044404	
0.4	1.039531	0.195371	0.954541	0.992275	0.078148	
0.5	1.061371	0.241137	0.931020	0.988158	0.120568	
0.6	1.087696	0.285040	0.904046	0.983328	0.171024	
0.7	1.118310	0.326874	0.874430 0.842957	0.977884	0.228812 0.293197	
0.8	1.152998 1.191533	0.366496 0.403823	0.810349	0.971928 0.965558	0.363441	
0.9 1.0	1.233685	0.438826	0.777239	0.958868	0.438826	
1.2	1.327913	0.501948	0.711535	0.944856	0.602338	
1.4	1.433883	0.556355	0.648908	0.930459	0.778897	
1.6	1.549928	0.602854	0.591052	0.916089	0.964567	
1.8	1.674559	0.642381	0.538665	0.902027	1.156286	
2.0	1.806478	0.675874	0.491813	0.888450	1.351748	
2.2	1.944566	0.704208	0.450207	0.875458	1.549258	
2.4	2.087870	0.728161	0.413386	0.863096	1.747588	
2.6	2.235584	0.748410	0.380829	0.851376	1.945867	
2.8	2.387025	0.765530	0.352023	0.840288	2.143484	
3.0	2.541619	0.780006	0.326488	0.829808	2.340019	
3.2	2.698879	0.792248	0.303794	0.819904	2.535195	
3.4	2.858393	0.702597	0.283565	0.810542	2.728830	
3.6	3.019811	0.811338	0.265475	0.801685	2.920818	
3.8	3.182837	0.818711	0.249242	0.793299	3.111103	
4.0	3.347218	0.824916	0.234627	0.785349	3.299666 3.486513	
4.2	3.512737	C.830122	0.221424	0.777805 0.770635	3.486513 3.671669	
4.4	2.679210	0.834470	0.209456	0.763813	3.855170	
4.6	3.846475	0.838080	0.198574 0.188649	0.757313	4.037062	
4.8	4.014399	0.841054 0.843478	0.179569	0.751113	4.217394	
5•0 5 5	4.182861 4.605733	0.847590	0.159971	0.736784	4.66174	
5.5 4.0	5.030100	0.849585	0.143915	0.723910	5.09751	
6•0 6•5	5.455069	0.850076	0.130568	0.712262	5.52549	
7.0	5.879998	0.849492	0.119329	0.701656	5.94644	
7.5	6.304432	0.848135	0.109755	0.691943	5.36101	
8.0	6.728041	0.846223	0.101515	0.683002	6.76979	
8.5	7.150591	0.843917	0.094360	0.674732	7.17330	
9.0	7.571913	0.841333	0.088095	0.667050	7.57199	
9.5	7.991892	0.838556	0.082569	0.659887	7.96628	
10.0	8.410448	0.835652	0.077663	0.653184	8.35652	
11.0	9.243109	0.829642	0.069345	0.640968	9.12606	
12.0	10.069710	0.823562	0.062571	C.630081	9.88275	
13.0	10.890262	0.817561	0.056957	0.620286	10.62829	
14.0	11.704886	0.811719	0.052234	0.611401	11.36407	
15.0	12.513768	0.806080	0.048209	0.603284	12.09120	
16.0	13.317122	0.800665	0.044741	0.595823	12.81064	
17.0	14.115176	0.795480	0.041723	0.588928	13.52316	
18.0	14.908159	0.790524	0.039074	0.582525	14.22943	
19.0	15.696299	0.785790	0.036731	0.576554	14.93001	
20.0	16.479811	0.781269	0.034646	0.570965	15.62539	
25.0	20.334890	0.761494	0.026922	0.547459	19.03735	
30.0	24.101035	0.745499	0.021956	0.529167	22.36498 25.62965	
35.0 40.0	27.794485 31.427223	0.732275	0.018503	0.514290 0.501809	28.84469	
40.0 45.0		0.721117 0.711523	0.015967 0.014027	0.491095	32.01905	
	35.CC8278 38.544614	0.703181	0.012498	0.481733	35.1590	
50•0 55•0	42.041723	0.695808	0.011261	0.473438	38.2694	
60.0	45.504018	0.689229	0.010240	0.466004	41.3537	
65.0	48.935108	0.683305	0.009385	0.459278	44.4148	
70.0	52.337984	0.677928	0.008658	0.453144	47.4550	
75.0	55.715163	0.673014	0.008032	0.447512	50.4760	
80.0	59.068783	0.668494	0.007488	0.442311	53.4795	
85.0	62.400680	0.664316	0.007010	0.437483	56.4669	
90.0	65.712445	C.660435	0.006589	0.432982	59.4391	
95.0	69.005468	0.656814	0.006213	0.428768	62.3973	
100.0	72.280973	0.653423	0.005877	0.424810	65.3423	
+∞	+∞	0.0	0.0	0.0	+00	

Table 15 M=1; N=-1.5

\$\begin{array}{cccccccccccccccccccccccccccccccccccc
0.1 1.002497 0.049906 0.996265 0.998753 0.004930 0.02 1.005962 0.99756 0.995055 0.19851 0.02 1.005962 0.995055 0.19851 0.02313 0.0249730 0.147528 0.967440 0.999026 0.044258 0.4 1.039416 0.19427 0.943659 0.990855 0.077699 0.5 1.061097 0.239018 0.914885 0.970783 0.119909 0.5 1.061097 0.239018 0.914885 0.970783 0.119909 0.6 1.087114 0.281528 0.88203 0.999083 0.168917 0.7 1.117320 0.221556 0.846707 0.946043 0.225089 0.8 1.151368 0.358964 0.809428 0.919500 0.225089 0.8 1.151368 0.358964 0.809428 0.919500 0.225089 0.8 1.151368 0.358964 0.809428 0.919500 0.225089 0.8 1.151368 0.358964 0.809428 0.919500 0.225089 0.8 1.151368 0.358964 0.809428 0.919500 0.225089 0.8 1.151368 0.358969 0.771282 0.917074 0.255432 0.9 1.00 1.230018 0.425745 0.733088 0.904662 0.578510 0.995710 0.995710 0.995710 0.995710 0.995711 0.995710 0.995711 0.99571 0.99571 0.995711 0.9957
C.3 1.022313
C.4         1,031416         0,194247         0,493659         0,980855         0,017699           0.5         1,061677         0,239018         0,14885         0,777693         0.6         1,061677         0,239018         0,14885         0,977083         0,119509           0.6         1,167120         0,221566         0,846707         0,946043         0,225089           0.8         1,151368         0,358964         0,809428         0,931950         0,287171           0.9         1,189024         0,393692         0,771282         0,917074         0,254323           1.0         1,230018         0,425745         0,733048         0,904662         0,425745           1.2         1,230018         0,425745         0,733048         0,904662         0,425745           1.4         1,42216         0,528867         0,58951         0,838527         0,740415           1.6         1,531956         0,567234         0,527384         0,807935         0,740415           1.8         1,446831         0,567234         0,577882         0,807935         0,740415           2.2         1,897731         0,643751         0,382514         0,752909         1,416233           2.4         2,021499
0.5 1.061097 0.299018 0.914885
0.6 1.067144 0.281528 0.882203 0.959083 0.168917 0.7 1.117320 0.321556 0.864707 0.946083 0.225089 0.8 1.151368 0.358964 0.809428 0.931950 0.287171 0.9 1.189024 0.339302 0.771282 0.917074 0.354323 1.0 1.230018 0.425745 0.733048 0.904662 0.452745 1.2 1.220669 0.482074 0.771282 0.917074 0.575423 1.0 1.230018 0.425745 0.733048 0.904662 0.452745 1.4 1.422216 0.528867 0.589551 0.838527 0.740415 1.4 1.422216 0.528867 0.589551 0.838527 0.740415 1.8 1.648631 0.5984516 0.57234 0.527388 0.807935 0.740415 1.8 1.648631 0.598418 0.472405 0.778822 1.077153 2.2 1.897731 0.643751 0.382514 0.725909 1.416253 2.2 1.897731 0.643751 0.382514 0.725909 1.416253 2.4 2.028149 0.659810 0.348218 0.702182 1.583544 2.6 2.161430 0.672493 0.314669 0.659818 1.748843 2.8 2.296662 0.662410 0.287255 0.659818 1.748843 2.8 2.296662 0.662410 0.287255 0.659818 1.748843 3.0 2.434243 0.690058 0.263301 0.640940 2.070175 3.2 2.572862 0.655845 0.24312 0.627343 2.2 2.572862 0.655845 0.27311 0.59255 2.2 2.25704 3.4 2.1712480 0.700102 0.223846 0.607178 2.380347 3.6 2.852819 0.70300 0.10300 0.577962 2.679227 4.0 3.134796 0.705600 0.133062 0.577962 2.679227 4.0 3.134796 0.705600 0.133062 0.577962 2.679227 4.0 3.134796 0.705600 0.133062 0.577962 2.679227 4.0 3.134796 0.705600 0.133062 0.577962 2.679227 4.0 3.134796 0.705690 0.18302 0.577962 2.679227 4.0 3.134796 0.705690 0.18302 0.579962 2.679227 3.68663 0.666648 0.69029 0.706557 0.486478 3.84225 5.5 4.190911 0.688592 0.16856 0.486478 3.84225 5.0448478 3.84225 5.0 4.8883732 0.666648 0.0703244 0.134796 0.70648 0.18896 0.550457 0.486478 3.84225 5.0 4.8883732 0.666648 0.0703240 0.132812 0.437361 1.70613 3.58627 0.666860 0.0703264 0.132812 0.437365 1.88648 3.5583823 0.666736 0.076593 0.438595 0.530104 3.246114 4.8 3.685619 0.666860 0.005681 0.331151 6.14407 1.00594 0.558464 0.559793 0.064304 0.406634 5.60807 1.0007778 0.50918 0.1918 1.0007778 0.66680 0.0007777 0.0007775 0.18111 0.00074 0.0007777 0.00077775 0.18111 0.00074 0.00077775 0.18111 0.00074 0.00077775 0.00077775 0.18111 0.00074 0.00077775 0.00077775 0.19191
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5.0       3.840406       0.703204       0.132872       0.510283       3.51602         5.5       4.190911       0.698592       0.116556       0.488478       3.84225         6.0       4.538823       0.692923       0.103415       0.469384       4.15754         6.5       4.883732       0.686636       0.092655       0.452505       4.46313         7.0       5.225406       0.680019       0.083718       0.437461       4.76013         7.5       5.563728       0.673260       0.076199       0.423952       5.04945         8.0       5.898663       0.666484       0.069802       0.411740       5.33187         8.5       6.230224       0.659773       0.064304       0.400634       5.60807         9.0       6.556457       0.653182       0.059538       0.390480       5.87864         9.5       6.883432       0.646745       0.055372       0.381151       6.14407         10.0       7.205231       0.640481       0.051704       0.372542       6.40481         11.0       7.839667       0.628517       0.04556       0.357150       6.91369         12.0       8.462921       0.617317       0.040620       0.343755       7.40781
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7.0
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8.0       5.898663       0.666484       0.069802       0.411740       5.33187         8.5       6.230224       0.659773       0.064304       0.400634       5.60807         9.0       6.558457       0.653182       0.059538       0.390480       5.87864         9.5       6.883432       0.646745       0.055372       0.381151       6.14407         10.0       7.205231       0.640481       0.051704       0.372542       6.40481         11.0       7.839667       0.628517       0.045556       0.357150       6.91369         12.0       8.462921       0.617317       0.040620       0.343755       7.40781         13.0       9.074550       0.606860       0.036581       0.331961       7.88918         14.0       9.676475       0.597100       0.033221       0.321470       8.35941         15.0       10.268967       0.587986       0.030388       0.312058       8.81979         16.0       10.852644       0.579462       0.027970       0.303951       9.27139         17.0       11.428071       0.571477       0.025884       0.295810       9.71511         18.0       11.995762       0.563983       0.024069       0.288726       10.
9.0 6.558457 0.653182 0.059538 0.390480 5.87864 9.5 6.883432 0.646745 0.055372 0.381151 6.14407 10.0 7.205231 0.640481 0.051704 0.372542 6.40481 11.0 7.839667 0.628517 0.045556 0.357150 6.91369 12.0 8.462921 0.617317 0.040620 0.343755 7.40781 13.0 9.074550 0.606860 0.036581 0.331961 7.88918 14.0 9.676475 0.597100 0.033221 0.321470 8.35941 15.0 10.268967 0.587986 0.030388 0.312058 8.81979 16.0 10.852644 0.579462 0.027970 0.303951 9.27139 17.0 11.428071 0.571477 0.025884 0.295810 9.71511 18.0 11.995762 0.563983 0.024069 0.288726 10.15169 19.0 12.556186 0.556396 0.022475 0.282209 10.58179 20.0 13.109771 0.550297 0.021067 0.276186 11.00594 25.0 15.787616 0.522090 0.015941 0.251675 13.05226 30.0 18.340880 0.500049 0.012731 0.233501 15.00149 35.0 20.795098 0.482223 0.010545 0.219290 16.87781 40.0 23.168112 0.467410 0.008967 0.207756 18.69641 45.0 25.472918 0.454835 0.007778 0.198134 20.46759 50.0 27.719315 0.443974 0.006852 0.189936 22.1987 55.0 29.914899 0.434459 0.006111 0.182833 23.8952 60.0 22.065703 0.426024 0.005507 0.176595 25.5614
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13.0       9.074550       0.606860       0.036581       0.331961       7.88918         14.0       9.676475       0.597100       0.033221       0.321470       8.35941         15.0       10.268967       0.587986       0.030388       0.312058       8.81979         16.0       10.852644       0.579462       0.027970       0.303951       9.27139         17.0       11.428071       0.571477       0.025884       0.295810       9.71511         18.0       11.995762       0.563983       0.024069       0.288726       10.15169         19.0       12.556186       0.556936       0.022475       0.282209       10.58179         20.0       13.109771       0.550297       0.021067       0.276186       11.00594         25.0       15.787616       0.522090       0.015941       0.251675       13.05226         30.0       18.340880       0.500049       0.012731       0.233501       15.00149         35.0       20.795098       0.482223       0.010545       0.219290       16.87781         40.0       23.168112       0.467410       0.008967       0.207756       18.69641         45.0       25.472918       0.454835       0.007778       0.198134<
14.0       9.676475       0.597100       0.033221       0.32147C       8.35941         15.0       10.268967       0.587986       0.030388       0.312058       8.81979         16.0       10.852644       0.579462       0.027970       0.303951       9.27139         17.0       11.428071       0.571477       0.025884       0.295810       9.71511         18.0       11.995762       0.563983       0.024069       0.288726       10.15169         19.0       12.556186       0.556936       0.022475       0.282209       10.58179         20.0       13.109771       0.550297       0.021067       0.276186       11.00594         25.0       15.787616       0.522090       0.015941       0.251675       13.05226         30.0       18.340880       0.500049       0.012731       0.233501       15.00149         35.0       20.795098       0.482223       0.010545       0.219290       16.87781         40.0       23.168112       0.467410       0.008967       0.207756       18.69641         45.0       25.472918       0.454835       0.007778       0.198134       20.46759         50.0       27.719315       0.443974       0.006852       0.18993
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18.0 11.995762 0.563983 0.024069 0.288726 10.15169 19.0 12.556186 0.556936 0.022475 0.282209 10.58179 20.0 13.109771 0.550297 0.021067 0.276186 11.00594 25.0 15.787616 0.522090 0.015941 0.251675 13.05226 30.0 18.340880 0.500049 0.012731 0.233501 15.00149 35.0 2C.795098 0.482223 0.010545 0.219290 16.87781 40.0 23.168112 0.467410 0.008967 0.207756 18.69641 45.0 25.472918 0.454835 0.007778 0.198134 20.46759 50.0 27.719315 0.443974 0.006852 0.189936 22.1987 55.0 29.914899 0.434459 0.006111 0.182833 23.8952 60.0 32.065703 0.426024 0.005507 0.176595 25.5614
19.0 12.556186 0.556936 0.022475 0.282209 10.58179 20.0 13.109771 0.550297 0.021067 0.276186 11.00594 25.0 15.787616 0.522090 0.015941 0.251675 13.05226 30.0 18.340880 0.500049 0.012731 0.233501 15.00149 35.0 20.795098 0.482223 0.010545 0.219290 16.87781 40.0 22.168112 0.467410 0.008967 0.207756 19.69641 45.0 25.472918 0.454835 0.007778 0.198134 20.46759 50.0 27.719315 0.443974 0.006852 0.189936 22.1987 55.0 29.914899 0.434459 0.006111 0.182833 23.8952 60.0 22.065703 0.426024 0.005507 0.176595 25.5614
20.0 13.109771 0.550297 0.021067 0.276186 11.00594 25.0 15.787616 0.522090 0.015941 0.251675 13.05226 30.0 18.340880 0.500049 0.012731 0.233501 15.00149 35.0 2C.795098 0.482223 0.010545 0.219290 16.87781 40.0 23.168112 0.467410 0.008967 0.207756 18.69641 45.0 25.472918 0.454835 0.007778 0.198134 20.46759 50.0 27.719315 0.443974 0.006852 0.189936 22.1987 55.0 29.914899 0.434459 0.006111 0.192833 23.8952 60.0 32.065703 0.426024 0.005507 0.176595 25.5614
25.0 15.787616 0.522090 0.015941 0.251675 13.05226 30.0 18.340880 0.500049 0.012731 0.233501 15.00149 35.0 2C.795098 0.482223 0.010545 0.219290 16.87781 40.0 23.168112 0.467410 0.008967 0.207756 18.69641 45.0 25.472918 0.454835 0.007778 0.198134 20.46759 50.0 27.719315 0.443974 0.006852 0.189936 22.1987 55.0 29.914899 0.434459 0.006111 0.182833 23.8952 60.0 32.065703 0.426024 0.005507 0.176595 25.5614
30.0 18.34C880 0.500049 0.012731 0.233501 15.00149 35.0 2C.795098 0.482223 0.010545 0.219290 16.87781 40.0 23.168112 0.467410 0.008967 0.207756 19.69641 45.0 25.472918 0.454835 0.007778 0.198134 20.46759 50.0 27.719315 0.443974 0.006852 0.189936 22.1987 55.0 29.914899 0.434459 0.006111 0.182833 23.8952 60.0 32.065703 0.426024 0.005507 0.176595 25.5614
35.0 2C.795098 0.482223 0.010545 0.219290 16.87781 40.0 23.168112 0.467410 0.008967 0.207756 18.69641 45.0 25.472918 0.454835 0.007778 0.198134 20.46759 50.0 27.719315 0.443974 0.006852 0.189936 22.1987 55.0 29.914899 0.434459 0.006111 0.182833 23.8952 60.0 32.065703 0.426024 0.005507 0.176595 25.5614
40.0     22.168112     0.467410     0.008967     0.207756     18.69641       45.0     25.472918     0.454835     0.007778     0.198134     20.46759       50.0     27.719315     0.443974     0.006852     0.189936     22.1987       55.0     29.914899     0.434459     0.006111     0.182833     23.8952       60.0     22.065703     0.426024     0.005507     0.176595     25.5614
45.0     25.472918     0.454835     0.007778     0.198134     20.46759       50.0     27.719315     0.443974     0.006852     0.189936     22.1987       55.0     29.914899     0.434459     0.006111     0.182833     23.8952       60.0     32.065703     0.426024     0.005507     0.176595     25.5614
50.0 27.719315 0.443974 0.006852 0.189936 22.1987 55.0 29.914899 0.434459 0.006111 0.192833 23.8952 60.0 32.065703 0.426024 0.005507 0.176595 25.5614
55.0 29.914899 0.434459 0.006111 0.182833 23.8952 60.0 32.065703 0.426024 0.005507 0.176595 25.5614
60.0 32.065703 0.426024 0.005507 0.176595 25.5614
65.0 34.176608 0.418471 0.005005 0.171054 27.2006
70.0 36.251634 0.411650 0.004581 0.166087 28.8155
75.0 38.294137 0.405444 0.004219 0.161597 30.4083
80.0 40.306955 0.399762 0.003907 0.157510 31.9810
85.0 42.292513 0.394530 0.003635 0.153768 33.5350
90.0 44.252908 0.389687 0.003396 0.150324 35.0719
95.0 46.189960 0.385186 0.003185 0.147138 36.5926
100.0 48.105269 0.380984 0.002997 0.144179 38.0984
$+\infty$ $+\infty$ 0.0 0.0 + $\infty$

Table 16 M=1; N=-2

ξ	θ	θ'	θ <sup>n</sup>	⊕ <sup>n+1</sup>	ξθ'
0.0	1.00000	0.0	1 000000	1 000000	0.0
0.0	1.002496	0.049875	1.000000 0.995024	1.000000 0.997509	0.0 0.004987
0.2	1.009950	0.099013	0.980392	0.990147	0.019802
0.3	1.022251	0.146722	0.956938	0.978232	0.044016
0.4	1.039227	0.192402	0.925931	0.962253	0.076961
0.5	1.060648	0.235567	0.888908	0.942819	0.117783
0.6	1.086244	0.275861	0.847509	0.920602	0.165516
0.7	1.115717	0.313061	0.803325	0.896284	0.219143
0.8	1.148750	0.347064	0.757789	0.870511	0.277651
0.9	1.185023	0.377868	0.712108	0.843865	0.340081
1.0	1.224220	0.405553	0.667238	0.816846	0.405553
1.2	1.310178	0.452167	0.582557	0.763254	0.542600
1.4	1.404395	0.488413	0.507015	0.712050	0.683778
1.6	1.504966	0.515993	0.441515	0.664466	0.825590
1.8	1.610324	0.536533	0.385632	0.620993	0.965759
2.0	1.719205	0.551451	0.338333	0.581664	1.102902
2.2	1.830609	0.561930	0.298406	0.546266	1.236247
2.4	1.943746	0.568928	0.264679	0.51447C	1.365428
2.6	2.057999	0.573205	0.236107	0.485908	1.490335
2.8	2.172887	0.575362	0.211799	0.460217	1.611015
3.0	2.288034	0.575869	0.191018	0.437056	1.727608
3.2	2.403150	0.575095	0.173156	0.416120	1.840305
3.4	2.518007	0.573330	0.157719	0.397139	1.949322
3.6	2.632431	0.570799	0.144306	0.379876	2.054878
3.8	2.746287	0.567683	0.132589	0.364127	2.157195
4.0	2.859474	0.564120	0.122300	0.349714	2.256482
4.2	2.971913	0.560223	0.113221	0.336483	2.352940
4.4	3.083547	0.556080	0.105171	0.324301	2.446754
4.6	3.194334	0.551760	0.098002	0.313054	2.538097
4.8	3.304243	0.547318	0.091591	0.302641	2.627130
5.0	3.413256	0.542800	0.085834	0.292975	2.71400
5.5	3.681803	0.531377	0.073769	0.271606	2.92257
6.0	3.944650	0.520047	0.064266	0.253507	3.12028
6.5	4.201901	0.509018	0.056638	0.237987	3.30861
7.0	4.453737	0.498399	0.050413	0.224530	3.48879
7.5	4.700378	0.488242	0.045262	0.212748	3.66181
8.0	4.942060	0.478564	0.040943	0.202344	3.82851
8.5	5.179022	0.469362	0.037282	0.193086	3.98957
9.0	5.411499	0.460621	0.034147	0.184791	4.14559
9.5	5.639717	0.452322	0.031440	0.177313	4.29706
10.0	5.863891	0.444440	0.029082	0.170535	4.44440
11.0	6.300905	0.429832	0.025188	0.158707	4.72815
12.0	6.724015	0.416603	0.022117	0.148720	4.99924
13.0	7.134513	0.404579	0.019645	0.140163	5.25952
14.0	7.533523	0.393604	0.017619	0.132740	5.51046
15.0	7.922028	0.383548	0.015934	0.126230	5.75323
16.0	8.300889	0.374298	0.014512	0.120469	5.98877
17.0	8.670862	0.365757	0.013300	0.115328	6.21788
18.0	9.032614	0.357844	0.012256	0.110709	6.44120
19.0	9.386737	0.350489	0.011349	0.106533	6.65929
20.0	9.733758	0.343631	0.010554	0.102735	6.87262
25.0	11.377258	0.315214	0.007725	0.087894	7.88035
30.0	12.897377	0.293749	0.006011	0.077535	8.81247
35.0	14.322266	0.276826	0.004875	0.069821	9.68891
40.0	15.67(855	0.263050	0.004072	0.063812	10-52201
45.0	16.956555	0.251555	0.003477	0.058974	11.32000
50.0	16.189259	0.241774	0.003022	0.054977	12.0887
55.0	19.376504	0.233318	0.002663	0.051608	12.8325
60.0	20.524186	0.225910	0.002373	0.048723	13.5546
65.0	21.637014	0.219348	0.002136	0.046217	14.2576
70.0	22.718824	0.213480	0.001937	0.044016	14.9436
75.0	23.772784	0.208191	0.001769	0.042064	15.6143
80.0	24.801550	0.203389	0.001625	0.040320	16.2711
85.0	25.807372	0.199003	0.001501	0.038748	16.9152
90.0	26.792179	0.194974	0.001393	0.037337	17.5414
95.0	25.757636	0.191256	0.001297	0.036026	18.1693
100.0	28.705195	0.187809	0.001213	0.034836	18.7809
+ 00	+∞	0.0	0.0	0.0	+∞

Table 17 M=1; N=-3

Ę	θ	θ′	$\Theta_{f n}$	⊕ <sup>n+1</sup>	<b>ξ</b> θ′
0.0	1.000000	0.0	1.000000	1.000000	0.0
0.1	1.002495	0.049813	0.992551	0.995027	0.004981
0.2	1.009925	0.098526	0.970803	0.980439	0.019705
0.3	1.022130	0.145137	0.936442	0.957166	0.043541
0.4	1.038855	0.188815	0.891938	0.926594	0.075526
0.5	1.059775	0.228953	0.840153	0.890373	0.114476
0.6	1.084515	0.265178	0.783957	0.850214	0.159107
0.7	1.112675	C. 297333	0.725930	0.807724	0.208133
0.8	1.143847	0.325446	0.668183	0.764299	0.260357
C.9	1.177635	0.349682	0.612304	0.721071	0.314713
1.0	1.213663	0.370298	0.559378	0.678896	0.370298
1.2	1.291085	0.401949	0.464659	0.599915	0.482339
1.4	1.373740	0.423064	0.385731	0.528895	0.592290
1.6	1.459776	0.436134	0.32147C	0.469275	0.697814
1.8	1.547797	0.443232	0.269685	0.417418	0.797819
2.0	1.636780	0.445981	0.228048	0.373266	0.891963
2.2	1.725982	0.445606	0.194487	0.335681	0.980334
2.4	1.814875	0.443015	0.167285	0.303603	1.063235
2.6	1.903085	0.438873	0.145085	0.27611C	1.141070
2.8	1.990354	0.433667	0.126826	0.252429	1.214269
3.0	2.076505	0.427751	0.111686	0.231917	1.283253
3.2	2.161424	0.421381	0.099032	0.214052	1.348419
3.4	2.245040	0.417744	0.088374	0.198404	1.410130
3.6	2.327313	0.407975	0.079329	0.184624	1.468711
3.8	2.408228	0.401172	0.071599	0.172426	1.524456
4.0	2.487785	0.394406	0.064947	0.161575	1.577624
4.2	2.565996	0.387724	0.059187	0.151875	1.628444
4.4	2.642883	0.381164	0.054170	0.143167	1.677123
4.6	2.718471	0.374748	0.049776	0.135316	1.723842
4.8	2.792793	0.368492	0.045907	0.128210	1.768763
5.0	2.865880	0.362406	0.042484	0.121754	1.81203
5.5	3.043425	0.347958	0.035474	0.107962	1.91377
6.0	3.214021	0.334604	0.030119	0.096806	2.00762
6.5	3.378202	0.322287	0.025938	0.087625	2.09487
7.0	3.536469	0.310931	0.022609	0.079957	2.17652
7.5	3.689279	0.300449	0.019914	0.073471	2.25337
8.0	3.837050	0.290759	0.017701	0.067921	2.32607
8.5 9.0	3.980157	0.281781 0.273445	0.015859	0.063124	2.39514 2.46101
9.5	4.118939 4.253700	0.265688	0.014310 0.012992	0.058942 0.055267	2.52404
10.0	4.384715	0.258453	0.011862	0.052013	2.58453
11.0	4.636476	0.245354	0.010033	0.046518	2.69889
12.0	4.875941	0.233811	0.008626	0.042061	2.80573
13.0	5.104528	0.223560	0.007518	0.038379	2.90628
14.0	5.232422	0.214392	0.006628	0.035287	3.00149
15.0	5.533618	0.206140	0.005901	0.032657	3.09210
16.0	5.735963	0.198670	0.005298	0.030393	3.17871
17.0	5.931182	0.191871	0.004792	0.028426	3.26181
18.0	6.119900	0.185655	0.004362	0.026700	3.34179
19.0	6.302661	C.179946	0.003994	0.025173	3.41897
20.0	6.479941	0.174682	0.003675	0.023815	3.49365
25.0	7.297222	0.153465	0.002573	0.018779	3.83664
30.0	8.024171	0.138059	0.001935	0.015531	4.14177
35.0	8.683821	0.126286	0.001527	0.013261	4.42003
40.0	9.291072	0.116949	0.001246	0.011584	4.67798
45.0	9.856168	0.109331	0.001044	0.010293	4.91992
50.0	10.386484	0.102976	0.000892	0.009269	5.1488
55.0	10.887519	0.097577	0.000774	0.008436	5.3667
60.0	11.363497	0.092923	0.000681	0.007744	5.5754
65.0	11.817741	0.088862	0.000605	0.007160	5.7760
70.0	12.252915	0.085279	0.000543	0.006660	5.9695
75.0	12.671190	0.082090	0.000491	0.006228	6.1567
80.0	13.074367	0.079229	0.000447	0.005850	6.3383
85.0	13.463950	0.076646	0.000409	0.005516	6.5149
90.0	13.841219	0.074297	0.000377	0.005219	6.6867
95.0	14.207265	0.072151	0.000348	0.004954	5.8544
100.0	14.563031	C.C70181	0.000323	0.004715	7.C181
+00	+00	0.0	0.0	0.0	+∞

Table 18 M=1; N=-4

ξ	θ	е'	θ'n	⊖ <sup>n+1</sup>	ξ Θ΄
0.0	1.000000	0.0	1.000000	1.000000	0.0
0.1	1.002493	0.049751	0.990086	0.992555	0.004975
0.2	1.009901	0.098045	0.961355	0.970874	0.019609
0.3	1.022010	0.143585	0.916596	0.936771	0.043075
0.4	1.038492	0.185359	0.859777	0.892872	0.074143
0.5	1.058934	0.222698	0.795286	0.842156	0.111349
0.6	1.082873	0.255283	0.727258	0.787529	0.153170
0.7 0.8	1.109831 1.139339	0.283091 0.306324	0.659130 0.593454	0.731524 0.676146	0.198163 0.245059
0.9	1.170955	0.325336	0.531909	0.622842	0.292802
1.0	1.204280	0.340562	0.475433	0.572555	0.340562
1.2	1.274678	0.361505	0.378789	0.482834	0.433806
1.4	1.348231	0.372663	0.302650	0.408043	0.521728
1.6	1.423286	0.376937	0.243686	0.346835	0.603100
1.8	1.498695	0.376521	0.198219	0.297070	0.677739
2.0	1.573688	0.372990	0.163051	0.256592	0.745981
2.2	1.647758	0.367446	0.135651	0.223521	0.808383
2.4	1.720583	0.360650	0.114102	0.196323	0.865561
2.6	1.791969	0.353121	0.096978	0.173783	0.918114
2.8	1.861807	0.345211	0.083226	0.154951	0.966591
3.0	1.930045	0.337159	0.072065	0.139090	1.011179
3•2 3•4	1.996672 2.061703	0.329125 0.321214	0.062917 0.055347	0.125926 0.114109	1.053202 1.092128
3.6	2.125170	0.313492	0.049025	0.104188	1.128572
3.8	2.187116	0.306002	0.043703	0.095583	1.162809
4.0	2.247588	0.298768	0.039186	0.088074	1.195074
4.2	2.306641	0.291802	0.035324	0.081481	1.225570
4.4	2.364327	0.285107	0.032001	0.075661	1.254474
4.6	2.420702	0.278682	0.029122	0.070497	1.281940
4.8	2.475818	0.272521	0.026614	0.065893	1.308102
5.0	2.529728	0.266615	0.024417	0.061770	1.33307
5.5	2.659547	0.252904	0.019987	0.053158	1.39097
6.0	2.782861	C.240564	0.016673	0.046400	1.44338
6.5	2.900313	0.229431	0.014132	0.040988	1.49130
7.0 7.5	3.012468 3.119819	0.219352 0.210196	0.012142 0.010555	0.036579 0.032931	1.53546 1.57647
8.0	3.222798	0.210146	0.009269	0.029874	1.61477
8.5	3.321783	0.194204	0.008213	0.027282	1.65073
9.0	3.417107	0.187186	0.007334	0.025062	1.68467
9.5	3.509061	0.190718	0.006595	0.023143	1.71682
10.0	3.597906	0.174739	0.005967	0.021470	1.74739
11.0	3.767167	0.164040	0.004965	0.018704	1.80444
12.0	3.926454	0.154744	0.004207	0.016519	1.85693
13.0	4.077035	0.146588	0.003619	0.014755	1.90565
14.0	4.219945	0.139372	0.003153	0.013306	1.95121
15.0	4.356041	0.132939	0.002777	0.012098	1.99408
16.0	4.486043	0.127165	0.002469	0.011076	2.03464
17.0	4.610558	0.121952	0.002213	0.010203	2.07318
18.0	4.730107	0.117220	0.001997	0.009449	2.10996
19.0 20.0	4.845137 4.956035	0.112903 0.108948	0.001814 0.001657	0.008791 0.008214	2.14516 2.17896
25.0 25.0	5.459081	0.108948	0.001037	0.006146	2.33126
30.0	5.896035	0.082106	0.000827	0.004878	2.46320
35.0	6.284742	0.073744	0.000640	0.004028	2.58105
40.0	6.636508	0.067212	0.000515	0.003421	2.68849
45.0	6.958977	0.061953	0.000426	0.002967	2.78788
50.0	7.257571	0.057616	0.000360	0.002615	2.8808
55.0	7.536290	0.053971	0.000310	0.002336	2.9684
60.0	7.798172	0.050859	0.000270	0.002108	3.0515
65.0	8.C45582	0.048167	0.000238	0.001920	3.1308
70.0	8.280404	0.045812	0.000212	0.001761	3.2068
75.0	8.504160	0.043731	0.000191	0.001625	3.2798
80.0	8.718101	0.041879	0.000173	0.001509	3.3503
85.0 80.0	8.923269	0.040217	0.000157	0.001407	3.4184 3.4844
90.0 95.0	9.120541 9.310662	0.038716 0.037353	0.000144	0.001318 0.001238	3.4844 3.5485
95.0 100.0	9.494274	0.037353	0.000133 0.000123	0.001238	3.6109
+∞	+00	0.036109	0.000123	0.001188	+ co ·

Table 19 M=1; N=-5

ξ	θ	θ'	<b>⊖</b> "	θ <sup>n+1</sup>	ξ Θ΄ 
0.0	1.000000	0.0	1.000000	1.000000	0.0
0.1	1.002492	0.049689	0.987631	0.990092	0.004968
0.2	1.009877	0.097568	0.952043	0.961447	0.019513
0.3	1.021892	0.142066	0.897373	0.917019	0.042620
C-4	1.038138	C.182026	0.829321	0.860950	0.072810
0.5	1.058123	0.216774	0.753906	0.797726	0.108387
0.6	1.081312	0.246094	0.676463	0.731468	0.147656 0.189093
0.7 0.8	1.107166 1.135176	0.270134 0.289291	0.601084 0.530497	0.665500 0.602208	0.231433
0.9	1.164879	0.304102	0.466223	0.543094	0.273692
1.0	1.195871	0.315155	0.408862	0.488947	0.315155
1.2	1.260390	0.328270	0.314394	0.396259	0.393924
1.4	1.326601	0.332677	0.243387	0.322877	0.465747
1.6	1.393085	0.331423	0.190594	0.265514	0.530277
1.8	1.458936	0.326635	0.151292	0.220726	0.587943
2.0	1.523599	0.319734	0.121799	0.185573	0.639469
2.2	1.586752	0.311654	0.099415	0.157747	0.685639
2.4	1.648223	0.302994	0.082209	0.135498 0.117520	0.727187 0.764761
2•6 2•8	1.707937 1.765882	0.294138 0.285327	0.068808 0.058235	0.102837	0.798918
2.8 3.0	1.822081	0.276709	0.049792	0.090725	0.830128
3.2	1.876584	0.268371	0.042969	0.080635	0.858789
3.4	1.929452	C. 260362	0.037396	0.072154	0.885230
3.6	1.980753	0.252703	0.032798	0.064964	0.909738
3.8	2.030557	0.245403	0.028968	0.058821	0.932532
4.0	2.078938	0.238456	0.025750	0.053534	0.953826
4.2	2.125963	0.231853	0.023026	0.048952	0.973785
4.4	2.171701	0.225580	0.020701	0.044957	0.992554
4.6	2.216216	0.219621 0.213959	0.018704	0.041452 0.038361	1.010258 1.027003
4.8 5.0	2.259569 2.301819	0.213737	0.016977 0.015475	0.035621	1.04288
5.5	2.402959	0.196237	0.012481	0.029992	1.07930
6.0	2.498290	0.185303	0.010275	0.02567C	1.11181
6.5	2.588461	0.175564	0.008605	0.022275	1.14117
7.0	2.674025	0.166845	0.007314	0.019558	1.16791
7.5	2.755452	0.158999	0.006295	0.017347	1.19249
8.0	2.833149	0.151904	0.005478	0.015521	1.21523
8.5	2.907465	0.145459	0.004813	0.013994	1.23640
9.0	2.978702	0.139578	0.004264	0.012702	1.25621
9.5	3.047126	0.134193 0.129241	0.003806 0.003420	0.011599 0.010648	1.27483 1.29241
10.0 11.0	3.112968 3.237699	0.120447	0.003420	0.009100	1.32491
12.0	3.354268	0.112871	0.002355	0.007899	1.35446
13.0	3.463769	0.106276	0.002005	0.006947	1.38159
14.0	3.567087	0.100480	0.001731	0.006176	1.40672
15.0	3.664950	0.095344	0.001512	0.005542	1.43017
16.0	3.757960	0.090760	0.001334	0.005014	1.45217
17.0	3.846626	0.086642	0.001187	0.004567	1.47292
18.0	3.931378	0.082921	0.001064	0.004186	1.49259
19.0	4.012583	0.079542	0.000961 0.000873	0.003857 0.003571	1.51129 1.52915
20.0 25.0	4.09C560 4.440572	0.076457 0.064336	0.000579	0.002571	1.60842
30.0	4.739911	0.055855	0.000373	0.001981	1.67565
35.0	5.002740	0.049564	0.000319	0.001596	1.73474
40.0	5.237911	0.044697	0.000253	0.001328	1.78791
45.0	5.451346	0.040812	0.000207	0.001132	1.83657
50.0	5.647209	0.037633	0.000174	0.000983	1.8816
55.0	5.828548	0.034978	0.000148	0.000866	1.9238
60.0	5.997662	0.032725	0.000128	0.000772	1.9635
65.0	6.156331	0.030788	0.000113	0.000696	2.0012
70.0	6.305963	0.029102	0.000100	0.000632	2.0371 2.0715
75.0	6.447691 6.582443	0.027620 0.026306	0.897E-04 0.809E-04	0.000578 0.000532	2.1045
80.0 85.0	6.710987	0.025132	0.734E-04	0.000493	2.1362
90.0	6.833968	0.024077	0.670E-04	0.000458	2.1669
95.0	6.951931	0.023123	0.615E-04	0.000428	2.1966
100.0	7.065343	0.022255	0.568E-04	0.000401	2.2255
+∞	+∞	0.0	0.0	0.0	+∞

Table 20 M=1; N=-10

	θ	θ'	θ <sup>n</sup>	⊖ <sup>n+1</sup>	ξ θ΄
0.0	1.000000	0.0	1.00000	1.00000	0.0
0.1	1.C02484	0.049383	0.97549	0.97791	0.004938
0.2	1.009758	0.095252	0.90745	0.91630	0.019050
0.3	1.021327	0.134928	0.80975	0.82702	0.040478
0.4	1.036489	0.167003	0.69879	0.72429	0.066801
0.5	1.054467	0.191297	0.58839	0.62044	0.095648
C•5	1.074511	0.208487	0.48740	0.52372	0.125092
0.7	1.095965	0.219686	0.39997	0.43835	0.153780
0.8	1.118290	0.226113	0.32693	0.36560	0.180890
0.9	1.141066	0.228893	0.26723	0.30493	0.206004
1.0 1.2	1.163979 1.209360	0.228979 0.223931	0.21905 0.14943	0.25497 0.18071	0.228979 0.268717
1.4	1.253304	0.215121	0.10457	0.13106	0.301169
1.6	1.295312	0.204836	0.07520	0.09741	0.327737
1.8	1.335221	0.194267	0.05552	0.07413	0.349680
2.0	1.373040	0.184004	0.04199	0.05765	0.368008
2.2	1.408862	0.174317	0.03245	0.04572	0.383499
2.4	1.442813	0.165309	0.02557	0.03690	0.396742
2.6	1.475032	0.156994	0.02051	0.03025	0.408185
2.8	1.505655	0.149347	0.01670	0.02514	0.418172
3.0	1.534812	0.142322	0.01378	0.02115	0.426968
3.2	1.562622	0.135867	0.01152	0.01800	0.434777
3.4	1.589194	0.129929	0.00973	0.01546	0.441761
3.6	1.614625	0.124458	0.00830	0.01340	0.448051
3.8	1.639005	0.119408	0.00714	0.01171	0.453750
4.0	1.662414	0.114735	0.00620	0.01031 0.00913	0.458942 0.463696
4.2	1.684922	0.110403 0.109379	0.00542 0.00477	0.00915	0.468069
4.4 4.6	1.706596 1.727492	0.102632	0.00422	0.00729	0.472109
4.8	1.747665	0.099136	0.00376	0.00657	0.475855
5.0	1.767162	0.095868	0.00336	0.00594	0.47934
5.5	1.813222	0.088563	0.00260	0.00471	0.48710
6.0	1.855898	0.082292	0.00206	0.00382	0.49375
6.5	1.895653	0.076853	0.00166	0.00316	0.49954
7.0	1.932864	0.072093	0.00137	0.00265	0.50465
7.5	1.967840	0.067893	0.00114	0.00225	0.50920
8.0	2.000836	0.064161	0.972E-03	0.00194	0.51329
8.5	2.032067	0.060824	0.832E-03	0.00169	0.51700
9.0	2.061716	0.057821	0.720E-03	0.00148	0.52039 0.52350
9.5 10.0	2.089936 2.116863	0.055105 0.052637	0.629E-03 0.553E-03	0.00131 0.00117	0.52637
11.0	2.167280	0.048321	0.437E-03	0.947E-03	0.53153
12.0	2.213727	0.044671	0.353E-03	0.783E-03	0.53605
13.0	2.256796	0.041543	0.291E-03	0.658E-03	0.54006
14.0	2.296953	0.038833	0.244E-03	0.561E-03	0.54366
15.0	2.334575	0.036462	0.207E-03	0.485E-C3	0.54693
16.0	2.369970	0.034370	0.178E-C3	0.423E-03	0.54992
17.0	2.403393	0.032510	0.155E-03	0.373E-C3	0.55267
18.0	2.435056	0.030845	0.136E-03	0.332E-03	0.55521
19.0	2.465139	0.029346	0.120E-03	0.297E-03	0.55759
20.0	2.493597	0.027990	0.107E-03	0.268E-03	0.55981 0.56917
25.0	2.619768	0.022766	0.656E-04	0.172E-03	0.56917 0.57655
30.0 35.0	2.724216	0.019218	0.444E-04	0.121E-03 0.905E-04	0.58266
35.0 40.0	2.813565 2.891719	0.016647 0.014697	0.321E-04 0.244E-04	0.707E-04	0.58790
45.0	2.961236	0.013166	0.1925-04	0.571E-04	0.59251
50.0	3.023881	0.011932	0.156E-04	0.473E-04	0.5966
55.0	3.080923	0.010915	0.129E-04	0.399E-04	£000.0
60.0	3.133311	0.010063	0.109E-04	0.343E-C4	0.6037
65.0	3.181766	0.009337	0.940E-05	0.299E-04	0.6069
70.0	3.226856	0.008713	0.817E-05	0.263E-04	0.6699
75.0	3.269031	0.008169	0.717E-05	0.234E-05	0.6126
80.0	3.308657	0.007691	0.636E-05	0.210E-04	0.6153
85.0	3.346035	0.007268	0.568E-05	0.190E-04	0.6177
90.0	3.381414	0.006890	0.512E-05	0.173E-04	0.6201
95.0	3.415003	0.006551	0.464E-05	0.158E-C4	0.6223
100.0	3.446983	0.006245	0.422E-05	0.145E-04	0.6245
<b>+</b> ∞	+∞	0.0	0.0	0.0	+∞

Table 22 M=2; N=-0.5

0.5
1
2; N
M = M

					_		_	-																																											
-ξ <sup>2</sup> θ΄	0.0	0.00033	0.00267	0.00522	0.00904	0.01438	0.02150	0.03068	0.04220	0.05632	0.07334	0.09356	0.11729	0.14483	0.17653	0.212.0	7.5CZ.O	700000	0.41009	0.47466	0.54625	0.62541	0.11270	0.80875	0.91426	1.03000	1.29574	1.47994	1.61442	1.79702	1.99746	2.21798	2.73118 2.73118	3.03222	3,37115	3.75784	4.20831	4.75220	5.45983	5.63623	5.83222	6.0228b	12575 7	4.77.44	6-77156	6.82341	6.88007	6.94317	7.01580	7.10421	
θ n+1	1.00000	0.99916	21866-0	0.99676	0.99245	0.98970	0.98652	0.98289	0.97880	0.97426	0.96925	0.96375	0.95775	0.95124	0.94421	0.93663	0.92849	0,616.0	0.91040	0.90040	0.87835	0.86620	0.85326	0.83946	0.82473	0.80902	77676	0.75097	0.73429	0.71199	0.68786	0.66165	0.63300	0.56642	0.52696	0.48174	0.42848	0.36290	0.27459	0.25190	0.22633	0.19664	0.16035	0.11003	0.00730	0.08981	0.08158	0.07235	0.06163	0.04847	0.02964 0.0
θ	1.00000	1.00083	1.00188	1.00525	1.00760	1.01038	1.01365	1.01740	1.02164	1.02640	1.03171	1.03760	1.04410	1.05124	1.05907	1.06765	1.07700	1.08123	1.07041	1.12391	1-13849	1.15444	1.17196	1.19123	1.21250	1.23605	1 20155	1.33159	1.36183	1.40449	1.45375	1.51135	1.5/9/6	1.76545	1.89762	2.0757	2,3336	2,1555	3.6417	3.9697	4.4182	5.084	6.235	9.032	776.01	11.132	12.257	13,820	16.223	20.627	33.728
,θ	0.0	-0.033350	960060-0-	-0.000000 -0.000000	-0-100454	ċ	Ö	-0.151552	ं	-0.186199	-0.203745	-0.221463	-0.239370	ċ	ं	o.	ံ	j,	-0.3520¢1	Š	ċ	-0.434315	ံ	-0.478552	o.	o o	077066-0-	Šć		-0.660063	-0.691165	ċ	-0.759680	ċċ		ö			ä	∹.	٠.	-:	-1.318406		: -	-1-465958			-1.441671	ä,	-1.482763
0	20	.55833	42966	0000	20406	9795	\$7322	.96607	.95806	.9491	.9394	.5288	.9172	.9648	.8915	. 8772	.8620	. 5459	68289	61010°	7715	75031	.72806	.70469	.68019	5451	0175	******	1065	.5669	.4731	.4377	4.	2208	2776	.2320	.1836	.1317	. 0753	•0634	.0512	.0386	.0257	.0122	99000	0000	.00665	.00523	.00379	.00235	0.0
יייד	0.0	C-100	512	27.0	24.0		40	45	550	.55	60	•65	20.	• 75	C*800	82	90	G•950	9	<b>^</b> c	2 10	\ C	in	$\sim$	10	$\sim$	~ ~	~ ·	•			10	80		10	_	in	10	.15	•16	.17	. 18	•19	200	9 6	900		202	0	20	2.208 2.208588
				_						-																	_									_		_													n 0
-ξ <sup>2</sup> θ′	0.0	000	71100.0	0.00501	10000	0.01432	0.02140	0.03050	0.04187	0.05580	0.07253	0.09234	0.11549	0.14228	0.17296	0.20784	0.24/21	0.24133	0.34030	0.45557	0.52198	0.59480	0.67438	0.76110	0.85534	95	1 18747	1-101-1	1.45478	1.60382	1.76393	1.93582	2.12029	2.53071	2.75895	3.00449	3.26923	3,55571	3.86746	4.20989	4.59242	5.03631	5.13703	7.24428	5.49472	5.50987	5,52556	5.54198	5,55933	5.57810	5.59954
θυ+1	1.000000	9988660	, 0	, 0	Ö	. 8	6	6	6	6	6,	6	Ö	6	5	5 8	ຄິ ດ	D 0	ŏď	ρά	60	ř	~	۲	ři	-		Ö	Ö	3	in	io.	0.4	- 3		'n	ñ	ŭ	2	Ñ,	_ 0	õ	0 0	o c	0	0	0	0	õ	ō	0.00282
θυ		• 000333	.000751	656100.	050500	961400	.005428	.006904	.008570	.010432	.012499	.014776	.017276	.020064	_	.026203		_						696690 *		1.084640	100707	11187	1.122732	.13469	1.147947	•	1.17929	•	•		•	•	•	•	•	•	•	•	•	•	•		3.268	•	• •
Θ,	0.0	0333	0.0500	7000.0	1001	0.1169	0.1337	0.1506	0.1675	0.1844	0.2014	0.2185	0.2357	0.2529	0.2702	0.2876	0.3051	0.3228	0.3405	0.336F	0.3966	0.4130	0.4316	0,4503	0.4693	0.4885	0.0000	5478	5682	0.5890	0.6103	0.6321	0.6544	7010	0.7255	0.7511	0.7779	0.8062	0.8366	0.8698	0.9071	0.9520	0.9626	0.9743	1 0034	1,0054	1.0074	1.0095	1.0118	1.0163	-1.017411 -1.020325
Φ	0000	958333	647966	055566	96459	979558	973290	566180	558227	874646	611665	929279	517922	902506	892626	E78678	643856	648156	1/6159	262472	776462	156249	733133	713085	60069	566148	141630	588454	560552	531619	501635	410515	138415	127C01	335006	298054	259873	220276	179212	136564	392162	145727	336154	756469	702010	205703	569400	169800	005680	01668	0.00652
mu	0.0		-	, ,	י ה	יאני האני	40	4.5	550	55	9	65	2	5	8	82	9	٠ د	) u	9 5	3.5	202	. 25	.30	E.	4.	ָ ייי	3 6	9	65	2	5	80 9	9 0	. 6	8	50	9	:12	2	52	6	<u>.</u>	2,5	, 4	34	4	34	34	£.	2.346639

Table 23 M=2; N=-0.8

C.0         1.00000         0.0         1.00000         0.0           C.050         C.999583         -0.016669         1.00022         0.999916         C.000041           C.100         C.986246         -0.033360         1.00132         0.999665         0.000332           C.200         C.996246         -0.050090         1.00301         0.99248         C.001127           C.200         C.993122         -0.06881         1.00536         0.998660         0.002575           C.300         C.984945         -0.100728         1.01219         0.994970         0.005224           C.300         C.974942         -0.117829         1.01672         0.995862         0.014434           C.400         C.973160         -0.135777         1.02199         0.994573         0.021612           C.450         O.965971         -0.152498         1.02808         0.993099         0.030881           C.500         O.957966         -0.17017         1.03500         0.991425         0.042526           C.550         O.9578966         -0.17017         1.03500         0.991425         0.042526           C.550         O.957966         -0.17017         1.03500         0.991425         0.042526           C.5
C.050 C.99583 -0.016669 1.00C23
C.150
C.200
C.250
C.300
C.350
C.400         C.573160         -0.152498         1.02199         0.994573         0.021612           C.4500         0.965971         -0.152498         1.02808         0.993099         0.032681           C.500         0.557906         -0.170117         1.03500         0.991435         0.042525           C.550         C.548955         -0.187961         1.04280         0.989576         0.056858           C.600         0.99166         -0.206058         1.05152         0.987513         0.274181           C.500         C.528345         -0.204040         1.06127         0.985239         0.094826           C.700         0.916657         -0.243140         1.07208         0.982746         0.119138           C.750         0.904025         -0.262194         1.08406         0.980022         0.147484           C.800         C.890431         -0.281642         1.09728         0.977057         0.180250           C.850         0.275853         -0.301527         1.11187         0.973837         0.217853           C.900         C.66270         -0.3342808         1.14569         0.966569         0.309384           1.000         C.825979         -0.364318         1.16525         0.962484         0.32
C.450         0.965971         -0.152498         1.02808         0.993099         0.030881           C.500         0.957906         -0.170117         1.03500         0.991435         0.042529           C.550         C.488955         -0.187961         1.04280         0.998576         0.056858           C.600         0.93106         -0.206058         1.05152         0.987513         C.74181           C.650         C.528345         -0.2243140         1.06127         0.985239         0.994826           C.700         0.916657         -0.243140         1.07208         0.982746         0.119138           C.750         0.904025         -0.262194         1.06406         0.98022         0.147484           C.800         C.890421         -0.281642         1.09728         0.977057         0.18025           C.850         0.875853         -0.301527         1.11187         0.973837         0.217853           C.900         C.866270         -0.321898         1.12795         0.970346         0.260737           C.950         0.483655         -0.342808         1.14569         0.96569         0.309384           1.090         0.825979         -0.344318         1.16525         0.962484         0.344318
C.500
C.550
0.800         0.939166         -0.206058         1.05152         0.987513         C.074181           0.650         0.928345         -0.224440         1.06127         0.985239         0.094826           0.700         0.916657         -0.243140         1.07208         0.982746         0.119138           0.750         0.904025         -0.262194         1.08406         0.980022         0.147484           0.800         0.84361         -0.281642         1.09728         0.970375         0.180250           0.800         0.84365         -0.301527         1.11187         0.973837         0.217853           0.900         0.866270         -0.321898         1.12795         0.970346         0.260737           0.950         0.843655         -0.342808         1.14569         0.966569         0.309384           1.000         0.825979         -0.364318         1.16565         0.9662484         0.364318           1.050         0.8677317         -0.409416         1.21081         0.953300         0.493393           1.150         0.7766256         -0.433169         1.23737         0.948145         0.572866           1.200         0.742985         -0.457856         1.26691         0.943588         0.5
C.650
C.700
C.750
C.80C
C.850       0.8178853       -0.301527       1.11187       0.973887       0.217852         C.900       C.86C270       -0.321898       1.12795       0.970346       0.260727         C.950       0.843655       -0.342808       1.14569       0.966569       0.309384         1.000       C.825979       -0.364318       1.16525       0.962484       0.364318         1.050       C.8C7212       -0.386495       1.18687       0.958070       0.426111         1.100       C.766256       -0.409416       1.21081       0.953300       0.495393         1.150       C.766256       -0.433169       1.23737       0.948145       0.572866         1.200       C.742985       -0.457856       1.26691       0.942568       0.659312         1.250       C.720453       -0.483594       1.29991       0.936528       0.755616         1.300       C.655605       -0.510522       1.33692       0.929977       0.862783         1.250       C.669378       -0.538805       1.37867       0.922856       0.981972         1.400       C.61699       -0.568639       1.42604       0.915095       1.114522         1.450       C.612484       -0.600264       1.48020       0.
C.900         C.86C270         -0.321898         1.12795         0.970346         0.26C737           C.950         0.843655         -0.342808         1.14569         0.966569         0.309384           1.000         C.825979         -0.364318         1.16525         0.962484         C.364318           1.050         C.8C7212         -0.386495         1.18687         0.958070         0.426111           1.100         C.787317         -0.409416         1.21081         0.953300         0.495393           1.150         C.766256         -0.433169         1.23737         0.948145         0.572866           1.200         C.743985         -0.457856         1.26691         0.942568         0.659312           1.250         C.720453         -0.483594         1.29991         0.936528         0.755616           1.300         C.655605         -0.510522         1.33692         0.929977         0.862783           1.350         0.669378         -0.538805         1.37867         0.922856         0.981972           1.400         C.6412484         -0.600264         1.480020         0.906607         1.262054           1.550         C.549046         -0.633974         1.54268         0.897285         1.
1.000
1.050
1.100
1.150
1.200
1.250
1.300
1.350
1.400
1.450
1.500
1.550
1.600
1.650
1.700
1.750
1.800
1.850
1.900     0.255744     -1.064362     2.9768     0.761309     3.842345       1.950     C.200001     -1.170029     3.6237     0.724780     4.449036       2.000     C.138089     -1.315725     4.8737     9.673026     5.262903       2.010     C.124748     -1.353148     5.2865     0.65948     5.466850       2.020     C.111012     -1.394860     5.802     0.64427     5.691591       2.030     C.056833     -1.442089     6.474     0.62690     5.942707
1.950
2.000 C.138089 -1.315725 4.8737 9.673026 5.262903 2.010 0.124748 -1.353148 5.2865 0.65948 5.466850 2.020 C.111012 -1.394860 5.802 0.64427 5.691591 2.030 C.066833 -1.442089 6.474 0.62690 5.942707
2.010     0.124748     -1.353148     5.2865     0.65948     5.466850       2.020     C.111012     -1.394860     5.802     0.64427     5.691591       2.030     C.068833     -1.442089     6.474     0.62690     5.942707
2.020
2.030 C.C96833 -1.442089 6.474 0.62690 5.942707
2.040 0.082146 -1.496696 7.384 0.60662 6.228654
2.C50
2.060 0.050858 -1.642931 10.837 0.55115 6.971939
2.070
2.080 0.015578 -1.933936 27.923 0.43501 8.366983
2.081 0.013630 -1.961515 31.073 0.42354 8.494464
2.082 C.011653 -1.992656 35.223 0.41047 8.637612
2.083 C.CC9643 -2.028658 40.984 0.39522 8.802120
2.084 0.007594 -2.071668 49.615 0.37678 8.997370
2.085 0.005497 -2.125828 64.25 0.35320 9.241451
2.086 0.03334 -2.201389 95.84 0.31959 9.579119
2.087
2.087442 0.0 -2.833272 +co 0.0 12.345746

Table 24 M=2; N=-1.2

ξ	θ	θ'	⊖ <sup>n</sup>	⊖ <sup>n+1</sup>	ξ <sup>2</sup> Θ΄	
0.0	1.000000	0.0	1.000000	1.000000	0.0	
0.1	1.001665	0.033293	0.998004	0.999667	0.000332	
0.2	1.006650	0.066348	0.992077	0.998675	0.002653	
0.3	1.014919	0.098936	0.982385	0.997042	0.008904	
0.4 0.5	1.026415 1.041059	0.130842 0.161873	0.969197 0.952860	0.994799 0.991984	0.020934 0.040468	
0.6	1.058755	0.191864	0.933781	0.988546	0.069071	
0.7	1.079392	0.220679	0.912398	0.984836	0.108133	
0.8	1.102848	0.248211	0.889162	0.980611	0.158855	
C.9	1.128989	C.274385	0.864513	0.976027	0.222252	
1.0	1.157678	0.299153	0.838869	0.971141	0.299153	
1.2	1.222130	0.344408	0.786066	0.960675	0.495947	
1.4	1.295067 1.375395	0.384046 0.418386	0.733245 0.682161	0.949601	0.752732	
1.6 1.8	1.462098	0.447886	0.633910	0.938241 0.926839	1.071069 1.451151	
2.0	1.554261	0.473068	0.589075	0.915577	1.89227	
2.2	1.651073	0.494463	0.547873	0.904579	2.39320	
2.4	1.751828	0.512574	0.510281	0.893926	2.95242	
2.6	1.855915	0.527862	0.476135	0.883666	3.56835	
2.8	1.962812	0.540736	0.445190	0.873824	4.23937	
3.0	2.072073	0.551552	0.417170	0.864408	4.96397	
3.2	2.183317	C.560618	0.391795	0.855414	5.74073	
3.4	2.296221	0.568197	0.368793	0.846831	6.56835	
3.6	2.410511 2.525954	0.574511 0.579750	0.347911 0.328919	0.838 <del>644</del> 0.830835	7.44566 8.37159	
3•8 4•0	2.642351	0.584075	0.311609	0.823383	9.34520	
4.2	2.759532	0.587621	0.295799	0.816268	10.36563	
4.4	2.877355	0.590502	0.281324	0.809471	11.43212	
4.6	2.955695	0.592816	0.268041	0.802972	12.54399	
4.8	3.114449	0.594645	0.255824	0.796753	13.70063	
5.0	3.233526	0.596060	0.244561	0.790796	14.90150	
5.5	3.532155	0.598149	0.219964	0.776948	18.09402	
6.0	3.831422	0.598709	0.199511	0.764412	21.55353	
6.5	4.130691	0.598223	0.182294	0.753000	25.27494	
7.0 7.5	4.429527 4.727637	0.597025 0.595345	0.167637 0.155034	0.742554 0.732944	29•2542 33•4882	
8.0	5.024820	0.593345	0.144097	0.724062	37.9741	
8.5	5.320948	0.591138	0.134528	0.715817	42.7097	
9.0	5.615937	0.588804	0.126093	0.708134	47.6931	
9.5	5.909741	0.586402	0.118609	0.700948	52.9228	
10.0	6.202335	0.583972	0.111926	0.694206	58.3971	
11.0	6.783882	0.579135	0.100513	0.681874	70.0753	
12.0	7.360653	0.574437	0.091138	0.670836	82.7189	
13.0	7.932826	0.569946	0.083307	0.660867	96.3209	
14.0 15.0	8.500624 9.064285	0.565689 0.561672	0.076675 0.070990	0.651793 0.643477	110.8751 126.376	
16.0	9.624046	0.557687	0.066064	0.635811	142.819	
17.0	10.180134	0.554325	0.061758	0.628708	160.200	
18.0	10.732765	C.550970	0.057962	0.622096	178.514	
19.0	11.282139	0.547807	0.054592	0.615916	197.758	
20.0	11.828439	0.544821	0.051580	0.610118	217.928	
25.0	14.519351	0.532097	0.040333	0.585612	332.560	
30.0	17.153945	0.522110	0.033018	0.566405	469.899	
35.0	19.743549	0.513988	0.027892	0.550699	629.635	
40.0 45.0	22.296023	0.507188	0.024106	0.537470	811.501	
45.0 50.0	24.817049	0.501362	0.021198	0.526077	1015.259 1240.698	
50.0 55.0	27.31C882 29.780810	0.496279 0.491777	0.018897	0.516098	1240.698 1487.62	
60.0	22 <b>.</b> 22 <b>943</b> 7	0.487742	0.017032	0.499286	1755.87	
65.0	34.658871	0.484088	0.014197	0.492081	2045.27	
70.0	37.070852	0.480752	0.013096	0.485504	2355.68	
75.0	39.466838	0.477683	0.012148	0.479461	2686.96	
80.0	41.848065	0.474843	0.011323	0.473876	3038.99	
85.0	44.215597	0.472200	0.010600	0.468689	3411.64	
90.0	46.570357	0.469730	0.009960	0.463850	3804.81	
95.0 100.0	48.913153 51.244698	0.467411 0.465227	0.009390 0.008880	0.459319 0.455061	4218.39 4652.27	
100.0 +∞	21•24 <b>4</b> 090 +∞	0.465221	0.0	0.0	+00	
¥ <b></b>	. 🏎	0.0	0.0	0.0	, ~	

Table 25 M=2; N=-1.5

ξ	Θ	Θ'	Θ'n	⊖ <sup>n+1</sup>	ξ <sup>2</sup> θ′
0.0	1.00000	0.0	1.000000	1.000000	0.0
0.1	1.001665	0.033283	0.997507	0.999168	0.000332
0.2	1.006646	0.066269	0.990112	0.996693	0.002650
0.3	1.014899	0.098674	0.978059	0.992632	0.068880
0.4	1.026353	0.130233	0.961733	0.987078	0.020837
0.5 0.6	1.040910	0.160716 0.189928	0.941628	0.980151	0.040179
0.7	1.05E454 1.C76848	0.217716	0.918315 0.892399	0.971994 0.962763	0.068374 0.106680
0.8	1.101946	0.243968	0.864488	0.952620	0.156139
0.9	1.127588	0.268612	0.835168	0.941726	0.217575
1.0	1.155613	0.291612	0.804972	0.930237	0.291612
1.2	1.218152	0.332693	0.743785	0.906043	0.479078
1.4	1.288270	0.367471	0.683895	0.881041	0.720244
1.6	1.364755	0.396472	0.627216	0.855997	1.014969
1.8	1.446517	0.420351	0.574796	0.831453	1.36193
2.0	1.532600	0.439795	0.527055	0.807765	1.75918
2.2	1.622184	0.455466	0.484004	0.785144	2.20445
2.4	1.714575	0.467961	0.445415	0.763698	2.69545
2.6	1.809192	0.477807	0.410934	0.743459	3.22998
2.8	1.905552	0.485455	0.380161	0.724418	3.80597
3.0	2.003254	0.491286	0.352692	0.706532	4.42158
3.2	2.101967	0.495619	0.328141	0.689742	5.07514
3.4	2.201419	0.498718	0.306158	0.673982	5.76518
3.6 3.8	2.301387	0.500803	0.286427	0.659181	6.49041 7.34947
3•8 <del>4</del> •0	2.401685 2.502163	0.502054 0.502622	0.268674 0.252654	0.645270	7.24967 8.04195
4.2	2.502163	0.502629	0.232654	0.632182 0.619852	8.86637
4.4	2.703184	0.502177	0.235157	0.608221	9.72215
4.6	2.803543	0.501350	0.213029	0.597236	10.60857
4.8	2.903704	0.500218	0.202102	0.586845	11.52503
5.0	3.003614	0.498839	0.192102	0.577002	12.47097
5.5	3.252014	0.494601	0.170518	0.554528	14.9616
6.0	3.498097	0.499646	0.152845	0.534667	17.6272
6.5	3.741599	0.484322	0.138170	0.516977	20.4626
7.0	3.982396	0.478851	0.125829	0.501103	23.4637
7.5	4.220450	0.473374	0.115335	0.486766	26.6272
8.0	4.455783	0.467976	0.106319	0.473737	29.9505
8.5	4.688449	0.462713	0.098504	0.461833	33.4310
9.0	4.918524	0.457615	0.091674	0.450902	37.0668
9.5	5.146095	0.452698	0.085661	0.440819	40.8560
10.0	5.371255	0.447972	0.080331	0.431481	44.7972
11.0	5.814721	0.439086	0.071315	0.414701	53.1294
12.0 13.0	6.249669	0.430926	0.064005	0.400010	62.0533
14.0	6.676796 7.096736	0.423433 0.416542	0.057962 0.052894	0.387004 0.375379	71.5601 81.6422
15.0	7.510060	0.410189	0.048588	0.364903	92.2927
16.0	7.917276	0.404317	0.044888	0.355395	103.5051
17.0	8.318836	0.398871	0.041677	0.346711	115.2738
18.0	8.715145	0.393806	0.038867	0.338737	127.593
19.0	9.106562	0.389081	0.036388	0.331377	140.458
20.0	9.493409	0.384661	0.034187	0.324555	158.864
25.0	11.368265	0.366171	0.026089	0.296587	228.857
30.0	13.162204	0.351970	0.020941	0.275635	316.773
35.0	14.892613	0.340576	0.017399	0.259128	417.206
40.0	16.571207	0.331134	0.014824	0.245653	529.814
45.0	18.206311	0.323111	0.012872	0.234362	654.300
50.0	15.804102	0.316161	0.011346	0.224710	790.403
55.0	21.369315	0.310047	0.010123	0.216323	937.89
60.0	22.905686	0.304600	0.009121	0.208943	1096.56
65.0	24.416225	0.299697	0.008288	0.202376	1266.22
70.0	25.903411	0.295245	0.007585	0.196481	1446.70
75.0	27.369309	0.291172	0.006984	0.191147	1637.84
80.0	28.815672	0.287422	0.006464	0.186288	1839.50
85.0	30.244000	0.283951	0.006012	0.181836	2051.55
90.0	31.655592	0.280722	0.005614	0.177735	2273.85
95.0	33.051581	0.277706	0.005262	0.173941	2506.30
100.0 + 00	34.432969 +∞	0.274878	0.004949	0.170416	2748.78
₹ 00	+ω	0.0	0.0	0.0	+∞

Table 26 M=2; N=-2

ξ	Ө	Θ′	θ <sup>n</sup>	9 <sup>n+1</sup>	ξ <sup>2</sup> Θ΄	
0.0	1.00000	0.0	1.000000	1.000000	0.0	
0.1	1.001665	0.033266	0.996678	0.998337	0.000332	
0.2	1.006640	0.066138	0.98685C	0.993403	0.002645	
0.3	1.014866	0.098239	0.970916	0.985350	0.008841	
0.4	1.026251	0.129230	0.949495	0.974420	0.020676	
0.5	1.040666	0.158821	0.923372	0.960922	0.039705	
0.6 0.7	1.057960	0.186780	0.893430	0.945214	0.067241	
0.8	1.077962 1.100485	0.212940 0.237190	0.860583 0.825717	0.927676 0.908690	0.104340 0.151802	
0.9	1.125335	0.259479	0.789652	0.888624	0.210178	
1.0	1.152315	0.279803	0.753107	0.867817	0.279803	
1.2	1.211893	0.314732	0.680881	0.825155	0.453214	
1.4	1.277737	0.342598	0.612515	0.782633	0.671493	
1.6	1.348520	0.364282	0.549901	0.741553	0.932562	
1.8	1.423101	0.380734	0.493774	0.702690	1.23357	
2.0	1.500526	0.392866	0.444132	0.666432	1.57146	
2.2	1.580014	0.401492	0.400569	0.632905	1.94322	
2.4	1.660936	0.407308	0.362488	0.602070	2.34609	
2.6	1.742789	0.410892	0.329238	0.573792	2.77763	
2.8	1.825176	0.412716	C.300185	0.547892	3.23569	
3.0	1.907784	0.413161	0.274752	0.524168	3.71845	
3.2	1.990369	0.412531	0.252425	0.502419	4.22432	
3.4	2.072741	0.411070 0.408970	0.232760 0.215379	0.482452	4.75197	
3.6 3.8	2.154754	0.406385		0.464089	5.30025	
4.0	2.236297 2.317284	0.403435	0.199958 0.186226	0.447167 0.431539	5.86819 6.45496	
4.2	2.397653	0.400216	0.173951	0.417074	7.05982	
4.4	2.477358	0.396806	0.162937	0.403655	7.68216	
4.6	2.556367	0.393263	0.153021	0.391180	8.32144	
4.8	2.634658	0.389635	0.144062	0.379555	8.97719	
5.0	2.712218	0.38596C	0.135941	0.368701	9.64900	
5.5	2.902891	0.376742	0.118669	0.344484	11.3964	
6.0	3.C88991	0.367705	0.104801	0.323730	13.2373	
6.5	3.270654	0.359011	0.093482	0.305749	15.1682	
7.0	3.448073	0.350738	0.084109	0.290016	17.1861	
7.5	3.621468	0.342914	0.076248	0.276131	19.2889	
8.0	3.791063	0.335540	0.069578	0.263778	21.4745	
8.5 9.0	3.957081 4.119734	0.328601 0.322077	0.063863	0.252711	23.7414	
9.5	4.279223	0.315940	0.058919 0.054609	0.242734 0.233687	26.0882 28.5136	
10.0	4.435734	0.310164	0.050824	0.225441	31.0164	
11.0	4.740509	0.299590	0.044498	0.210947	36.2504	
12.0	5.035295	0.290159	0.039441	0.198598	41.7828	
13.0	5.321151	0.281700	0.035317	0.187929	47.6074	
14.0	5.598974	0.274073	0.031899	0.178604	53.7183	
15.0	5.86953 <del>4</del>	0.267157	0.029026	0.170371	60.1103	
16.0	6.133493	0.260854	0.026581	0.163039	6 <b>6.</b> 7786	
17.0	6.391420	0.255082	0.024479	0.156459	73.718	
18.0	6.643811	0.249773	0.022655	0.150516	80.926	
19.0	6.891101	0.244869	0.021058	0.145114	88.398	
20.0	7.133670	0.240323	0.019650	0.140180	96.129	
25.0 30.0	8.286249 C.358554	0.221709	0.014564	0.120681	138.568	
30.0 35.0	9.358554 10.369420	0.207822 0.196925	0.011417 0.009300	0.106854 0.096337	187.040 241.233	
40.0	11.331168	0.188054	0.009300	0.096337	300.887	
45.0	12.252372	0.180632	0.006661	0.081616	365.780	
50.0	13.139282	0.174287	0.005792	0.076107	435.71	
55.0	13.996629	0.168772	0.005104	0.071445	510.53	
60.0	14.828098	0.163912	0.004548	0.067439	590.08	
65.0	15.636630	0.159580	0.004089	0.063952	674.22	
70.0	16.424622	0.155682	0.003706	0.060884	762.84	
75.0	17.194059	0.152147	0.003382	0.058159	855.82	
80.0	17.946607	0.148918	0.003164	0.055720	953.08	
85.0	18.683684	0.145952	0.002864	0.053522	1054.50	
90.0	19.406510	0.143213	0.002655	0.051529	1160.02	
95.0	20.116144	0.140671	0.002471	0.049711	1269.55	
100.0	28.820426	0.138280	0.002306	0.048029	1384.18	
<b>+</b> ∞	+∞	0.0	0.0	0.0	+ ∞	

Table 27 M=2; N=-3

ţ	θ	θ'	θ <sup>n</sup>	⊖ <sup>n+1</sup>	ξ <sup>2</sup> Θ′
0.0	1.000000	0.0	1.C0000C	1.000000	0 • C
0.1	1.001664	0.033233	0.995024	0.996679	0.000332
0.2	1.006627	0.065877	0.980379	0.986876	0.002635
0.3	1.014801	0.097381	0.956878	0.971041	0.008764
0.4	1.026049	0.127267	0.925753	0.949868	0.020362
0.5	1.040188	0.155155	0.888513	0.924221	0.038788
0.6	1.057004	0.180773	0.846777	0.895047	0.650788
0.7	1.076261 1.097712	0.203958 0.224646	0.802132 0.756020	0.863304 0.829893	C.099939
0.8 0.9	1.121108	0.242858	0.709671	0.795618	0.143773 0.196715
1.0	1.146204	0.258681	0.664069	0.761159	0.258681
1.2	1.200585	0.283731	0.577857	0.693767	0.408573
1.4	1.259189	0.301166	0.500871	0.630692	0.590286
1.6	1.320643	0.312471	0.434153	0.573361	0.799926
1.8	1.383861	0.319017	0.377330	0.522173	1.03361
2.0	1.448011	0.321966	0.329370	0.476931	1.28786
2.2	1.512471	C.322253	0.289027	0.437145	1.5597C
2.4	1.576784	0.320605	0.255083	0.402212	1.84669
2.6	1.640621	0.317578	0.226451	0.371520	2.14683
2.8	1.703751	0.313589	0.202199	0.344498	2.45854
3.0	1.766014	0.308950	0.181558	0.320635	2.78055
3.2	1.827304	0.303891	0.163895	0.299487	3.111.85
3.4	1.887554	0.298583	0.148696	0.280673	3.45162
3.6	1.946729 2.004812	0.293150 0.287682	0.135544	0.263869	3.79923 4.15413
3.8 4.0	2.061804	0.282244	0.124101 0.114092	0.248801 0.235236	4.51591
4.2	2.117715	0.276883	0.105292	0.222979	4.88422
4.4	2.172565	0.271630	0.097517	0.211862	5.25877
4.6	2.226376	0.266508	0.090615	0.201744	5.63932
4.8	2.279178	0.261531	0.084462	0.192505	6.02568
5.0	2.330999	0.256707	0.078953	0.184041	6.41768
5.5	2.456469	0.245338	0.067463	0.165720	7.4214
6.0	2.576500	0.234943	0.058466	0.150639	8.4579
6.5	2.691566	0.255465	0.051284	0.138035	9.5259
7.0	2.802105	0.216825	0.045451	0.127359	10.6244
7.5	2.908517	0.208939	0.040642	0.118210	11.7528
8.0	3.011157	0.201725	0.036626	0.110289	12.9104
8.5	3.110343	0.195111	0.033233	0.103367	14.0967
9.0	3.206357	0.189029	0.030336	0.097269	15.3114
9.5	3.299451	0.183422	0.027840	0.091857	16.5539
10.0	3.389850	0.178238	0.025671	0.087023	17.8238
11.0	3.563340	0.168965	0.022101	0.078756	20.4448
12.0	3.728188	0.160914	0.019297	0.071945	23.1716
13.0	3.885499	0.153856	0.017047	0.066237	26.0018
14.0	4.036174	0.147617	0.015208	0.061384	28.9329 31.9628
15.0 16.0	4.180959 4.320479	0.142057 0.137068	0.013682 0.012399	0.057206 0.053571	35.C894
17.0	4.455257	0.132563	0.011307	0.050379	38.3107
18.0	4.585743	0.128471	0.010369	0.047553	41.624
19.0	4.712319	0.124736	0.009556	0.045032	45.029
20.0	4.835318	0.121309	0.008845	0.042771	48.523
25.0	5.405623	0.107642	0.006330	0.034222	67.276
30.0	5.918067	0.097818	0.004824	0.028552	88.036
35.0	6.387663	0.090328	0.003836	0.024508	110.652
40.0	6.823896	0.084374	0.003147	0.021475	134.999
45.0	7.233189	0.079492	0.002642	0.019113	160.972
50.0	7.620123	0.075392	0.002260	0.017221	188.482
55.0	7.988100	0.071884	0.001961	0.015671	217.44
60.0	8.339729	0.068835	0.001724	0.014377	247.80
65.0	8.667063	0.066052	0.001530	0.013281	279.49
70.0	9.001752	0.063767	0.00137C	0.012340	312.46
75.0	9.315148	0.061627	0.001237	0.011524	346.65
80.0	9.618373	0.059693	0.001123	0.010809	382.03
85.0	9.912373	0.057933	0.001026	0.010177	418.56
90.0	10.197955	0.056322	0.000942	0.009615	456.21
95.0	10.475811	0.054840	0.000869	0.009112	494.93 534.70
100.0	10.746543	0.053470	0.00805	0.008658	534.70
+∞	+∞	0.0	0.0	0.0	+∞

Table 28 M=2; N=-4

ξ	θ	Θ′	Θ <sup>n</sup>	⊖ <sup>n+1</sup>	ξ <sup>2</sup> θ΄
0.0	1.00000	0.0	1.000000	1.000000	0.0
0.1	1.001663	0.033200	0.993374	0.995026	0.000332
0.2	1.006613	0.065618	0.973975	0.980417	0.002624
0.3	1.014736	0.096537	0.943161	0.957060	0.008688
0.4	1.025851	0.125360	0.902947	0.926289	0.020057
0.5	1.039724	0.151646	0.855711	0.889703	0.037911
0.6	1.056086	0.175120	0.803899	0.848987	0.063043
0.7	1.074650	0.195663	0.749775	0.805746	0.095875
0.8	1.095122	0.213292	0.695263	0.761398	0.136507
0.9	1.117215	0.228124	0.641877	0.717115	0.184780
1.0	1.140660	0.240351	0.590710	0.673800	0.240351 0.371447
1.2	1.190631	0.257949	0.497611	0.592472 0.520266	0.525482
1.4	1.243344	0.268103 0.272709	0.418441 0.352830	0.457798	0.698136
1.6 1.8	1.297503 1.352164	0.273345	0.299145	0.404493	0.88563
2.0	1.406659	0.271231	0.255413	0.359280	1.08492
2.2	1.460534	0.267274	0.219762	0.320970	1.29360
2.4	1.513490	0.262128	0.190581	0.288443	1.50986
2.6	1.565337	0.256259	0.166558	0.260720	1.73231
2.8	1.615967	0.249992	0.146645	0.236974	1.95994
3.0	1.665323	0.243552	0.130018	0.216523	2.19197
3.2	1.713387	0.237094	0.116031	0.198807	2.42784
3.4	1.760167	0.230719	0.104180	0.183374	2.66711
3.6	1.805685	0.224497	0.094065	0.169853	2.90948
3.8	1.849978	0.218468	0.085375	0.157942	3.15468
4.0	1.893087	0.212659	0.077860	0.147396	3.40255
4.2	1.935058	0.207083	0.071322	0.138012	3.65295
4.4	1.975937	0.201744	0.065600	0.129622	3.90577
4.6	2.015771	0.196641	0.060566	0.122088	4.16094
4.8	2.054609	0.191770	0.056115	0.115295	4.41839
5.0	2.092495	0.187123	0.052160	0.109145	4.67809
5.5	2.183329	0.176427	0.044007	0.096081	5.3369 6.0092
6.0	2.269121 2.350425	0.166922 0.158456	0.037719 0.032765	0.085790 0.077012	6.6947
6.5 7.0	2.427727	0.150888	0.028787	0.069887	7.3935
7.5	2.501443	0.144095	0.025540	0.063889	8.1053
8.0	2.571933	0.137971	0.022853	0.058778	8.8301
8.5	2.639511	0.132428	0.020601	0.054378	9.5679
9.0	2.704446	0.127390	0.018693	0.050555	10.3186
9.5	2.766975	0.122793	0.017059	0.047204	11.0821
10.0	2.827304	0.118582	0.015649	0.044246	11.8582
11.0	2.942066	0.111143	0.013347	0.039268	13.4483
12.0	3.049948	0.104777	0.011556	0.035247	15.0879
13.0	3.151907	0.099268	0.010132	0.031935	16.7763
14.0	3.248714	0.094450	0.008977	0.029165	18.5123
15.0	3.340997	0.090200	0.008025	0.026814	20.2951
16.0	3.429272	0.086420	0.00723C	0.024796	22.123
17.0	3.513970	0.083034	0.006558	0.023046	23.997
18.0	3.595453	0.079982	0.005983	0.021514	25.914
19.0	3.674029	0.077214	0.005488	0.020163	27 • 874 29 • 876
20.0	3.749963	0.074691	0.005056	0.018963	29.876 40.487
25.0 30.0	4.097031	0.064779 0.057809	0.003549 0.002661	0.014540 0.011718	52.028
30.0 35.0	4.402590 4.678007	0.052586	0.002088	0.009768	64.417
40.0	4.930319	0.048491	0.001692	0.009766	77.587
45.0	5.164214	0.045174	0.001405	0.007260	91.478
50.0	5.382995	0.042417	0.001190	0.006411	106.043
55.0	5.589084	0.040079	0.001024	0.005527	121.24
60.0	5.784326	0.038064	0.000893	0.005167	137.03
65.0	5.970154	0.036304	0.000787	0.004699	153.38
70.0	6.147717	0.034751	0.000700	0.004303	170.28
75.0	6.317947	0.033366	0.000627	0.003965	187.68
80.0	6.481612	0.032121	0.000566	0.003672	205.57
85.0	6.639358	0.030995	0.000514	0.003416	223.93
90.0	6.791731	0.029969	0.000469	0.003191	242.75
95.0	6.939199	0.029030	0.000431	0.002992	262.CC
100.0	7.082164	0.028167	0.000397	0.002815	281.67
+∞	+∞	0.0	0.0	0.0	+ œ

Table 29 M=2; N=-5

ξ	θ	θ΄	Θ <sup>n</sup>	⊖ <sup>n+1</sup>	ξ²Θ΄
0.0	1.000000	0.0	1.000000	1.000000	0.0
0.1	1.001662	0.033167	0.991728	0.993377	0.000331
0.2	1.006600	0.065361	0.967638	0.974026	0.002614
0.3	1.014672	0.095706	0.929757	0.943399	0.008613
0.4	1.025657	0.123506	0.881026	0.903631	0.019761
0.5	1.039273	0.148285	0.824804	0.857197	0.037071
0.6	1.055204	0.169792 0.187982	0.764391 0.702678	0.806589 0.754058	0.061125 0.092111
0.7 0.8	1.073121 1.092694	0.202969	0.641957	0.701463	0.129900
0.9	1.113615	0.214978	0.583879	0.650217	0.174132
1.0	1.135600	0.224303	0.529506	0.601308	0.224303
1.2	1.181786	0.236196	0.433815	0.512676	0.340122
1.4	1.229616	0.241157	0.355753	0.43744C	0.472668
1.6	1.277930	0.241321	0.293402	0.374947	0.617782
1.8	1.325936	0.238319	0.243998	0.323525	0.77215
2•0 2•2	1.373126 1.419188	0.233325 0.227152	0.204855 0.173699	0.281292 0.246512	0.93330 1.09941
2.4	1.463946	0.220352	0.148721	0.217720	1.26922
2.6	1.507312	0.213287	0.128523	0.193725	1.44182
2.8	1.549259	0.206196	0.112041	0.173581	1.61658
3.0	1.589799	0.199229	0.098466	0.156541	1.79306
3.2	1.628966	0.192478	0.087184	0.142020	1.97098
3.4	1.666808	0.185996	0.077726	0.129555	2.15012
3.6	1.703384	0.179811	0.069732	0.118781	2.33035
3.8	1.738753	0.173933	0.062923	0.109407	2.51159
4•0 4•2	1.772978 1.806118	0.168361 0.163089	0.057079 0.052031	0.101201 0.093975	2.69378 2.87689
4.4	1.838233	0.158105	0.047642	0.087578	3.06091
4.6	1.869378	0.153395	0.043803	0.081886	3.24584
4.8	1.899608	0.148944	0.040427	0.076796	3.43167
5.0	1.928972	0.144737	0.037442	0.072226	3.61842
5.5	1.998899	0.135187	0.031336	0.062637	4.0894
6.0	2.064361	0.126845	0.026672	0.055062	4.5664
6.5	2.125913	0.119519	0.023028	0.048957	5.0497
7.0	2.184023	0.113050	0.020123	0.043951	5.5394 6.0358
7•5 8•0	2.239084 2.291429	0.107303 0.102171	0.017768 0.015829	0.039784 0.036272	6.5389
8.5	2.341342	0.097563	0.015025	0.033276	7.0489
9.0	2.389067	0.093405	0.012848	0.030696	7.5658
9.5	2.434812	0.089636	0.011686	0.028453	8.0896
10.0	2.478760	0.086205	0.010686	0.026488	8.6205
11.0	2.561872	0.080190	0.009061	0.023215	9.7030
12.0	2.639446	0.075093	0.007806	0.020603	10.8133 11.9511
13.0 14.0	2.712297 2.781072	0.070716 0.066917	0.006812 0.00601C	0.018477 0.016716	13.1159
15.0	2.846289	0.063587	0.005353	0.015236	14.3072
16.0	2.908375	0.060643	0.004805	0.013976	15.5246
17.0	2.567682	0.058019	0.004344	0.012892	16.767
18.0	3.024503	0.055664	0.003951	0.011950	18.035
19.0	3.079088	0.053539	0.003613	0.011125	19.327
20.0	3.131647	0.051609	0.003319	0.010397	20.643
25.0	3.369666	0.044104	0.0023G1 0.001708	0.007756 0.006111	27.565 35.011
30.0 35.0	3.576474 3.76C903	0.038901 0.035045	0.001708	0.004998	42.930
40.0	3.928349	0.032049	0.001068	0.004199	51.279
45.0	4.082370	0.029640	0.000881	0.003600	60.022
50.0	4.225452	0.027651	0.000742	0.003136	69.129
55.0	4.359405	0.025974	0.000635	0.002768	78.57
60.0	4.485599	0.024537	0.000550	0.002470	88.33
65.0	4.605093	0.023288	0.000482	0.002223	98.39
70.0	4.718731	0.022189	0.000427	0.002016	108.72 119.33
75.0 80.0	4.827196 4.9310 <del>4</del> 8	0.021214 0.020341	0.000381 0.000343	0.001841 0.001691	130.18
85.0	5.03C755	0.020341	0.000343	0.001561	141.28
90.0	5.126714	0.018840	0.000282	0.001447	152.60
95.0	5.219261	0.018188	0.000258	0.001347	164.14
100.0	5.308687	0.017590	0.000237	0.001259	175.90
+ 00	+ ∞	0.0	0.0	0.0	+ co

Table 30 M = 2; N = -10

ξ	θ	Θ'	θ n	θ <sup>n+1</sup>	ξ²Θ΄	
0.0	1.000000	0.0	1.00000	1.00000	0 • C	
0.1	1.001658	0.033003	0.98356	0.98519	0.000330	
C•2	1.006536	0.064103	0.93692	0.94304	0.002564	
0.3	1.014363	0.091750	0.86709	0.87954	0.008257	
0.4	1.024738	0.114968	0.78319	0.80256	0.018394	
0.5 0.6	1.037196 1.051262	0.133395 0.147176	0.69404 0.60658	0.71986 0.63767	0.033348 0.052983	
0.7	1.066493	0.156789	0.52531	0.56024	0.076826	
0.8	1.082502	0.162870	0.45259	0.48993	0.104237	
0.9	1.098971	0.166092	0.38916	0.42768	0.134534	
1.0	1.115646	0.167080	0.33475	0.37347	0.167080	
1.2	1.148880	0.164428	0.24960	0.28676	0.236777	
1.4 1.6	1.181179 1.212031	0.158146 0.150219	0.18916 0.14617	0.22343 0.17716	0.309967 0.384561	
1.8	1.241233	0.141777	0.11520	0.14299	0.45935	
2.0	1.268749	0.133429	0.09252	0.11738	0.53371	
2.2	1.294632	0.125480	0.07560	0.09787	0.60732	
2.4	1.318977	0.118066	0.06275	0.08276	0.68006	
2.6	1.341897	0.111229	0.05282	0.07088	0.75191	
2.8	1.363507	0.104963	0.04502	0.06138	0.82291	
3.0 3.2	1.383918	0.099236	0.03880 0.03378	0.05370	0.89312 0.66263	
3.2 3.4	1.403235	0.094007 0.089232	0.03378	0.04740 0.04218	0.96263 1.03152	
3.6	1.438955	0.084867	0.02627	0.03780	1.09192	
3.8	1.455523	0.080869	0.02343	0.03410	1.16775	
4.0	1.471325	0.C77202	0.02103	0.03094	1.23524	
4.2	1.486424	0.073831	0.01899	0.02823	1.30239	
4.4	1.500875	0.070726	0.01724	0.02587	1.36926	
4.6	1.514730	0.067860	0.01572	0.02382	1.43591	
4.8	1.528034	0.065208	0.01441	0.02201	1.50239	
5.0 5.5	1.54C827 1.57C806	0.062749 0.057330	0.01325 0.01093	0.02042 0.01717	1.56873 1.7342	
6.0	1.598299	0.052767	0.00919	0.01469	1.8996	
6.5	1.623686	0.048882	0.00785	0.01274	2.0652	
7.0	1.647272	0.045539	0.00679	0.01119	2.2314	
7.5	1.669300	0.042538	0.00595	0.00993	2.3984	
8.0	1.689970	0.040098	0.00526	0.00889	2.5662	
8.5	1.709448	0.037858	0.00469	0.00802	2.7352	
9.0	1.727870	0.035869	0.00421	0.00728	2.9053	
9.5 10.0	1.745352 1.761992	0.034091 0.032494	0.00381 0.00346	0.00665 0.00610	3.0767 3.2494	
11.0	1.793066	0.029742	0.00291	0.00521	3.5988	
12.0	1.821633	0.027457	0.00248	0.00452	3.9539	
13.0	1.848101	0.025530	0.00215	0.00397	4.3146	
14.0	1.872487	0.023883	0.00188	0.00352	4.6811	
15.0	1.895942	0.022458	0.00166	0.00315	5.0532	
16.0	1.917765	0.021214	0.00148	0.00284	5.4309	
17.0 18.0	1.938420 1.958042	0.020117 0.019143	0.00133 0.00120	0.00258 0.00236	5.8140 6.202	
19.0	1.976742	0.018272	0.00120	0.00216	, 6.596	
20.0	1.994616	0.017487	0.00100	0.00200	6.995	
25.0	2.074032	0.014496	0.678E-03	0.00140	9.060	
30.0	2.141184	0.012481	0.493E-C3	0.00105	11.233	
35.0	2.199761	0.011020	0.376E-C3	0.829E-03	13.499	
40.0	2.251956	0.009904	0.298E-C3	0.671E-03	15.847	
45.0	2.299189	0.009020	0.2425-03	0.556E-03	18.266	
50.0 55.0	2.342433	0.008300 0.007599	0.201E-03	0.470E-03	20.750 23.29	
55.0 60.0	2.382389 2.419580	0.007190	0.169E-03 0.145E-03	0.404E-03 0.351E-03	23.29 25.88	
65.0	2.454408	0.006751	0.145E-03	0.309E-03	28.52	
70.0	2.487188	0.006369	0.110E-03	0.274E-03	31.20	
75.0	2.518175	0.006032	0.975E-04	0.245E-03	33.93	
80.0	2.547575	0.005733	0.868E-C4	0.221E-03	36.69	
85.0	2.575561	0.005465	0.778E-C4	0.200E-03	39.48	
90.0	2.602676	0.005224	0.702E-04	0.182E-03	42.31	
95.0 100.0	2.627843	0.005005	0.636E-C4	0.167E-03	45.17	
100.0 + co	2.652366 +∞	0.004806	0.580E-04	0.153E-03	48.06 +∞	
+&	. 33	0.0	0.0	0.0		