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$r$	$v_1$	$v_1'$	$10^{-1}v_1''$	$10^{-1}v_1'''$	$10^{-1}\bar{u}_1$	$10^{-2}\bar{u}_1'$	$10^{-3}\bar{u}_1''$	$10^{-4}\bar{u}_1'''$
1.00	0.000	3.580	-0.358	4.656	0.000	0.000	-1.171	1.056
1.05	0.175	3.436	-0.262	-0.351	-0.126	-0.463	-0.700	0.832
1.10	0.343	3.287	-0.355	-3.073	-0.428	-0.718	-0.334	0.637
1.15	0.503	3.065	-0.542	-4.189	-0.817	-0.812	-0.059	0.470
1.20	0.648	2.741	-0.756	-4.215	-1.221	-0.789	0.140	0.328
1.25	0.775	2.312	-0.952	-3.545	-1.592	-0.684	0.273	0.209
1.30	0.878	1.796	-1.104	-2.476	-1.896	-0.525	0.352	0.111
1.35	0.954	1.218	-1.197	-1.228	-2.113	-0.339	0.387	0.033
1.40	0.999	0.610	-1.226	0.038	-2.234	-0.144	0.388	-0.027
1.45	1.015	0.002	-1.195	1.209	-2.258	0.045	0.363	-0.072
1.50	1.000	-0.576	-1.108	2.211	-2.192	0.216	0.318	-0.104
1.55	0.958	-1.099	-0.977	2.997	-2.046	0.361	0.260	-0.126
1.60	0.891	-1.547	-0.813	3.543	-1.836	0.475	0.194	-0.139
1.65	0.805	-1.908	-0.627	3.835	-1.577	0.554	0.122	-0.146
1.70	0.702	-2.173	-0.433	3.868	-1.288	0.597	0.048	-0.151
1.75	0.589	-2.342	-0.245	3.637	-0.987	0.602	-0.028	-0.155
1.80	0.469	-2.421	-0.074	3.132	-0.693	0.568	-0.107	-0.160
1.85	0.348	-2.422	0.064	2.329	-0.426	0.494	-0.189	-0.169
1.90	0.228	-2.366	0.153	1.190	-0.206	0.378	-0.278	-0.185
1.95	0.112	-2.280	0.176	-0.346	-0.056	0.215	-0.375	-0.208
2.00	0.000	-2.204	0.110	-2.371	0.000	0.000	-0.487	-0.241

Table 1

The eigenfunctions for  $r_2 = 2r_1$ ,  $m = 0$  with  $v_1(1.5) = 1$

~~WGM0~~

$r$	$10^2 \theta$	$10 \theta'$	$\theta''$	$10^{-1} \theta'''$	$r$	$10^2 \theta$	$10 \theta'$	$\theta''$	$10^{-1} \theta'''$
1.00	0.000	0.000	1.000	-0.537	1.55	3.316	-0.233	-0.527	0.054
1.05	0.114	0.434	0.739	-0.505	1.60	3.135	-0.487	-0.484	0.118
1.10	0.413	0.742	0.496	-0.469	1.65	2.833	-0.712	-0.409	0.181
1.15	0.837	0.933	0.272	-0.427	1.70	2.431	-0.891	-0.303	0.246
1.20	1.329	1.018	0.070	-0.380	1.75	1.953	-1.009	-0.163	0.314
1.25	1.838	1.007	-0.107	-0.327	1.80	1.435	-1.048	0.012	0.389
1.30	2.322	0.915	-0.256	-0.268	1.85	0.921	-0.990	0.227	0.473
1.35	2.742	0.756	-0.375	-0.206	1.90	0.464	-0.813	0.488	0.572
1.40	3.069	0.545	-0.462	-0.141	1.95	0.131	-0.493	0.803	0.690
1.45	3.282	0.299	-0.516	-0.076	2.00	0.000	0.000	1.182	0.831
1.50	3.365	0.035	-0.538	-0.011					

Table 2

The adjoint function for  $r_2 = 2r_1, m = 0$  with  $\theta''(1) = 1$ .

~~WGM~~

$r$	$F_1$	$10^{-1}F_1'$	$r$	$F_1$	$10^{-1}F_1'$	$r$	$F_1$	$10^{-1}F_1'$
1.00	0.000	1.837	1.35	2.779	-0.801	1.70	-0.761	-0.314
1.05	0.894	1.729	1.40	2.290	-1.131	1.75	-0.845	-0.030
1.10	1.713	1.527	1.45	1.675	-1.301	1.80	-0.800	0.197
1.15	2.397	1.187	1.50	1.016	-1.308	1.85	-0.660	0.353
1.20	2.879	0.724	1.55	0.391	-1.170	1.90	-0.459	0.438
1.25	3.109	0.190	1.60	-0.137	-0.928	1.95	-0.232	0.465
1.30	3.069	-0.342	1.65	-0.526	-0.626	2.00	0.000	0.459

Table 3

The mean-motion distortion for  $r_2 = 2r_1, m = 0$ .

~~WGM0~~

$r$	$\bar{v}_2$	$\bar{v}_2'$	$10^{-1}\bar{v}_2''$	$10^{-2}\bar{v}_2'''$	$10^{-1}\bar{u}_2$	$10^{-2}\bar{u}_2'$	$10^{-3}\bar{u}_2''$	$10^{-4}\bar{u}_2'''$
1.00	0.000	-4.298	0.430	-1.849	0.000	0.000	2.561	-2.572
1.05	-0.212	-4.193	0.185	0.496	0.272	1.005	1.532	-1.665
1.10	-0.418	-3.998	0.649	1.165	0.934	1.583	0.816	-1.248
1.15	-0.607	-3.529	1.216	1.021	1.803	1.846	0.255	-1.007
1.20	-0.766	-2.810	1.623	0.585	2.738	1.856	-0.197	-0.802
1.25	-0.885	-1.945	1.799	0.130	3.626	1.667	-0.544	-0.586
1.30	-0.960	-1.045	1.770	-0.225	4.380	1.330	-0.781	-0.362
1.35	-0.991	-0.199	1.595	-0.454	4.942	0.904	-0.908	-0.147
1.40	-0.982	0.535	1.335	-0.570	5.278	0.439	-0.934	0.037
1.45	-0.940	1.130	1.039	-0.603	5.382	-0.016	-0.878	0.177
1.50	-0.872	1.574	0.741	-0.582	5.269	-0.429	-0.765	0.266
1.55	-0.785	1.874	0.462	-0.530	4.965	-0.776	-0.620	0.308
1.60	-0.686	2.041	0.214	-0.460	4.506	-1.047	-0.464	0.312
1.65	-0.583	2.094	0.004	-0.380	3.931	-1.240	-0.312	0.295
1.70	-0.479	2.052	-0.164	-0.291	3.278	-1.360	-0.169	0.277
1.75	-0.379	1.937	-0.286	-0.195	2.582	-1.410	-0.031	0.282
1.80	-0.286	1.774	-0.359	-0.093	1.879	-1.389	0.121	0.335
1.85	-0.202	1.588	-0.378	0.016	1.208	-1.282	0.316	0.460
1.90	-0.127	1.405	-0.342	0.132	0.617	-1.058	0.598	0.685
1.95	-0.060	1.256	-0.242	0.272	0.178	-0.660	1.022	1.037
2.00	0.000	1.177	-0.059	0.480	0.000	0.000	1.661	1.544

Table 4  
The harmonics for  $r_2 = 2r_1$ ,  $m = 0$ .  
WGMO



$x$	$v_1$	$v_1'$	$10^{-1}v_1''$	$10^{-1}v_1'''$	$10^{-1}\bar{u}_1$	$10^{-2}\bar{u}_1'$	$10^{-3}\bar{u}_1''$	$10^{-3}\bar{u}_1'''$
0.00	1.000	0.000	-1.164	0.000	-2.138	0.000	0.339	0.000
0.02	0.998	-0.233	-1.160	0.450	-2.131	0.068	0.337	-0.160
0.04	0.991	-0.463	-1.146	0.896	-2.111	0.135	0.333	-0.320
0.06	0.979	-0.691	-1.124	1.332	-2.077	0.200	0.325	-0.480
0.08	0.963	-0.912	-1.093	1.754	-2.031	0.264	0.313	-0.640
0.10	0.943	-1.127	-1.054	2.158	-1.972	0.326	0.299	-0.799
0.12	0.918	-1.334	-1.007	2.538	-1.901	0.384	0.281	-0.959
0.14	0.889	-1.530	-0.953	2.889	-1.818	0.438	0.260	-1.119
0.16	0.857	-1.714	-0.892	3.207	-1.726	0.488	0.236	-1.279
0.18	0.821	-1.886	-0.825	3.487	-1.624	0.532	0.209	-1.439
0.20	0.782	-2.044	-0.753	3.722	-1.513	0.571	0.179	-1.600
0.22	0.739	-2.187	-0.676	3.908	-1.396	0.604	0.145	-1.762
0.24	0.694	-2.314	-0.597	4.038	-1.272	0.629	0.109	-1.926
0.26	0.647	-2.425	-0.515	4.107	-1.145	0.647	0.068	-2.091
0.28	0.597	-2.520	-0.433	4.109	-1.014	0.656	0.025	
0.30	0.546	-2.598	-0.351	4.035	-0.883	0.656	-0.022	-2.431
0.32	0.494	-2.660	-0.272	3.881	-0.752	0.647	-0.073	-2.607
0.34	0.440	-2.707	-0.197	3.637	-0.625	0.627	-0.126	-2.788
0.36	0.385	-2.740	-0.127	3.296	-0.502	0.596	-0.184	-2.975
0.38	0.330	-2.759	-0.065	2.848	-0.387	0.553	-0.245	-3.169
0.40	0.275	-2.766	-0.014	2.285	-0.282	0.498	-0.311	-3.371
0.42	0.220	-2.765	0.025	1.596	-0.189	0.429	-0.380	-3.583
0.44	0.165	-2.757	0.049	0.770	-0.111	0.345	-0.454	-3.807
0.46	0.110	-2.747	0.055	-0.206	-0.052	0.247	-0.533	-4.043
0.48	0.055	-2.737	0.040	-1.344	-0.014	0.132	-0.616	-4.293
0.50	0.000	-2.732	0.000	-2.660	0.000	0.000	-0.705	-4.559

Table 5

The eigenfunctions for  $m=1, v_1(0)=1.$

$x$	$F_1$	$F_1'$	$x$	$F_1$	$F_1'$	$x$	$F_1$	$F_1'$
0.00	0.000	-1.204	0.18	-1.650	-0.399	0.36	-1.235	0.740
0.02	-0.240	-1.192	0.20	-1.715	-0.249	0.38	-1.080	0.806
0.04	-0.475	-1.157	0.22	-1.750	-0.098	0.40	-0.914	0.856
0.06	-0.701	-1.100	0.24	-1.754	0.050	0.42	-0.739	0.892
0.08	-0.914	-1.022	0.26	-1.730	0.193	0.44	-0.558	0.916
0.10	-1.109	-0.925	0.28	-1.677	0.328	0.46	-0.373	0.928
0.12	-1.283	-0.811	0.30	-1.599	0.452	0.48	-0.187	0.933
0.14	-1.432	-0.684	0.32	-1.498	0.563	0.50	0.000	0.934
0.16	-1.556	-0.545	0.34	-1.375	0.659			

Table # 6

The mean-motion distortion for  $m=1$ .

$x$	$10\bar{u}_2$	$\bar{u}_2'$	$10^{-1}\bar{u}_2''$	$10^{-1}\bar{u}_2'''$	$\bar{u}_2$	$10^{-1}\bar{u}_2'$	$10^{-2}\bar{u}_2''$	$10^{-3}\bar{u}_2'''$
0.00	0.000	0.852	0.000	-3.548	0.000	2.127	0.000	-0.635
0.02	0.170	0.845	-0.071	-3.525	0.425	2.115	-0.127	-0.640
0.04	0.337	0.824	-0.141	-3.455	0.844	2.076	-0.257	-0.655
0.06	0.499	0.789	-0.209	-3.336	1.253	2.012	-0.390	-0.678
0.08	0.652	0.741	-0.274	-3.167	1.647	1.920	-0.528	-0.706
0.10	0.794	0.680	-0.335	-2.946	2.019	1.800	-0.672	-0.737
0.12	0.923	0.607	-0.391	-2.669	2.365	1.651	-0.823	-0.765
0.14	1.036	0.524	-0.441	-2.336	2.678	1.471	-0.978	-0.785
0.16	1.132	0.431	-0.484	-1.944	2.951	1.259	-1.136	-0.790
0.18	1.208	0.331	-0.519	-1.493	3.179	1.017	-1.293	-0.773
0.20	1.264	0.224	-0.544	-0.985	3.356	0.743	-1.443	-0.726
0.22	1.298	0.114	-0.558	-0.425	3.475	0.440	-1.580	-0.640
0.24	1.309	0.002	-0.560	0.179	3.530	0.112	-1.696	-0.505
0.26	1.298	-0.109	-0.550	0.815	3.518	-0.236	-1.779	-0.313
0.28	1.266	-0.217	-0.528	1.465	3.435	-0.596	-1.816	-0.053
0.30	1.212	-0.320	-0.492	2.105	3.279	-0.959	-1.795	0.283
0.32	1.138	-0.413	-0.444	2.704	3.052	-1.309	-1.698	0.702
0.34	1.047	-0.496	-0.384	3.224	2.758	-1.631	-1.508	1.212
0.36	0.941	-0.566	-0.316	3.619	2.403	-1.905	-1.207	1.815
0.38	0.821	-0.622	-0.241	3.834	2.000	-2.105	-0.775	2.512
0.40	0.693	-0.663	-0.164	3.805	1.567	-2.205	-0.196	3.299
0.42	0.557	-0.688	-0.091	3.460	1.127	-2.173	0.549	4.165
0.44	0.418	-0.700	-0.028	2.722	0.710	-1.973	1.474	5.092
0.46	0.278	-0.700	0.015	1.507	0.351	-1.570	2.589	6.052
0.48	0.139	-0.696	0.285	-0.270	0.097	-0.925	3.895	7.006
0.50	0.000	-0.692	0.000	-2.694	0.000	0.000	5.387	7.898

Table #7

The harmonics for  $m = 1$ .



$x$	$v_1$	$v_1'$	$10^{-1} v_1''$	$10^{-1} v_1'''$	$10^{-1} \bar{u}_1$	$10^{-2} \bar{u}_1'$	$10^{-3} \bar{u}_1''$	$10^{-3} \bar{u}_1'''$
-0.50	0.000	2.864	0.000	2.805	0.000	0.000	-0.834	5.830
-0.45	0.144	2.883	0.048	-0.649	-0.093	-0.347	-0.562	5.035
-0.40	0.288	2.888	-0.044	-2.857	-0.326	-0.569	-0.329	4.281
-0.35	0.431	2.825	-0.221	-4.063	-0.643	-0.683	-0.134	3.558
-0.30	0.569	2.661	-0.437	-4.476	-0.995	-0.708	0.027	2.863
-0.25	0.695	2.387	-0.658	-4.281	-1.340	-0.662	0.153	2.196
-0.20	0.806	2.006	-0.858	-3.640	-1.647	-0.561	0.247	1.561
-0.15	0.895	1.535	-1.017	-2.697	-1.894	-0.420	0.310	0.967
-0.10	0.958	0.998	-1.125	-1.577	-2.063	-0.255	0.344	0.422
-0.05	0.994	0.420	-1.174	-0.388	-2.147	-0.080	0.353	-0.067
0.00	1.000	-0.166	-1.164	0.776	-2.144	0.094	0.339	-0.494
0.05	0.977	-0.734	-1.098	1.836	-2.055	0.256	0.305	-0.858
0.10	0.927	-1.256	-0.983	2.728	-1.892	0.396	0.254	-1.162
0.15	0.853	-1.711	-0.829	3.396	-1.665	0.507	0.189	-1.414
0.20	0.758	-2.081	-0.648	3.795	-1.390	0.583	0.113	-1.628
0.25	0.646	-2.356	-0.455	3.880	-1.088	0.619	0.027	-1.820
0.30	0.524	-2.536	-0.266	3.603	-0.779	0.609	-0.069	-2.015
0.35	0.394	-2.626	-0.101	2.910	-0.488	0.548	-0.175	-2.238
0.40	0.262	-2.645	0.017	1.726	-0.240	0.432	-0.294	-2.518
0.45	0.130	-2.622	0.062	-0.047	-0.066	0.252	-0.428	-2.888
0.50	0.000	-2.601	0.000	-2.548	0.000	0.000	-0.584	-3.385

Table # 8

The eigenfunctions for  $m = 0, v_1(0) = 1.$



$x$	$10^2 \theta$	$10 \theta'$	$\theta''$	$10^{-1} \theta'''$	$x$	$10^2 \theta$	$10 \theta'$	$\theta''$	$10^{-1} \theta'''$
-0.50	0.000	0.000	1.000	-0.665	0.05	2.781	-0.266	-0.428	0.076
-0.45	0.112	0.421	0.691	-0.574	0.10	2.596	-0.468	-0.377	0.124
-0.40	0.397	0.698	0.425	-0.492	0.15	2.318	-0.640	-0.304	0.170
-0.35	0.789	0.852	0.198	-0.417	0.20	1.964	-0.768	-0.208	0.214
-0.30	1.232	0.902	0.007	-0.346	0.25	1.559	-0.844	-0.090	0.258
-0.25	1.677	0.865	-0.149	-0.278	0.30	1.131	-0.854	0.051	0.304
-0.20	2.085	0.759	-0.271	-0.213	0.35	0.717	-0.789	0.215	0.354
-0.15	2.426	0.599	-0.362	-0.150	0.40	0.357	-0.634	0.406	0.411
-0.10	2.678	0.402	-0.422	-0.089	0.45	0.100	-0.377	0.628	0.478
-0.05	2.825	0.182	-0.451	-0.031	0.50	0.000	0.000	0.887	0.558
0.00	2.859	-0.045	-0.453	0.024					

Table #9

The adjoint function for  $m=0$ ,  $\theta''(-\frac{1}{2})=1$ .

$x$	$F_1$	$10^{-1}F_1'$	$x$	$F_1$	$10^{-1}F_1'$	$x$	$F_1$	$10^{-1}F_1'$
-0.50	0.000	0.938	-0.15	1.270	-0.756	0.20	-1.880	-0.115
-0.45	0.468	0.925	-0.10	0.817	-1.039	0.25	-1.848	0.235
-0.40	0.914	0.844	-0.05	0.253	-1.195	0.30	-1.654	0.530
-0.35	1.295	0.661	0.00	-0.353	-1.205	0.35	-1.331	0.746
-0.30	1.557	0.373	0.05	-0.928	-1.071	0.40	-0.922	0.875
-0.25	1.654	0.007	0.10	-1.404	-0.816	0.45	-0.468	0.930
-0.20	1.559	-0.389	0.15	-1.730	-0.481	0.50	0.000	0.938

Table #10

The mean-motion distortion for  $m=0$ .

$x$	$\bar{v}_2$	$\bar{v}_2'$	$10^{-1}\bar{v}_2''$	$10^{-2}\bar{v}_2'''$	$10^{-1}\bar{u}_2$	$10^{-2}\bar{u}_2'$	$10^{-3}\bar{u}_2''$	$10^{-4}\bar{u}_2'''$
-0.50	0.000	-2.730	0.000	-1.070	0.000	0.000	1.298	-0.993
-0.45	-0.138	-2.799	-0.165	0.248	0.144	0.542	0.897	-0.663
-0.40	-0.279	-2.822	0.116	0.772	0.514	0.914	0.600	-0.546
-0.35	-0.417	-2.661	0.529	0.823	1.035	1.148	0.339	-0.505
-0.30	-0.542	-2.300	0.900	0.636	1.641	1.255	0.094	-0.472
-0.25	-0.644	-1.782	1.151	0.364	2.271	1.245	-0.130	-0.420
-0.20	-0.718	-1.172	1.265	0.096	2.869	1.131	-0.322	-0.345
-0.15	-0.761	-0.537	1.255	-0.126	3.387	0.931	-0.472	-0.254
-0.10	-0.773	0.067	1.149	-0.286	3.789	0.667	-0.574	-0.156
-0.05	-0.756	0.601	0.979	-0.388	4.048	0.365	-0.628	-0.061
0.00	-0.714	1.039	0.770	-0.440	4.151	0.046	-0.638	0.021
0.05	-0.653	1.369	0.546	-0.452	4.095	-0.267	-0.610	0.087
0.10	-0.579	1.586	0.323	-0.434	3.887	-0.559	-0.553	0.137
0.15	-0.497	1.695	0.117	-0.388	3.542	-0.817	-0.475	0.177
0.20	-0.411	1.707	-0.061	-0.319	3.078	-1.030	-0.376	0.219
0.25	-0.327	1.640	-0.198	-0.226	2.521	-1.189	-0.252	0.283
0.30	-0.248	1.517	-0.284	-0.113	1.901	-1.275	-0.086	0.393
0.35	-0.176	1.366	-0.310	0.012	1.262	-1.262	0.153	0.580
0.40	-0.112	1.218	-0.271	0.141	0.663	-1.102	0.513	0.879
0.45	-0.054	1.106	-0.169	0.269	0.197	-0.719	1.057	1.438
0.50	0.000	1.060	0.000	0.416	0.000	0.000	1.871	1.958

Table # 11

The harmonics for  $m = 0$ .



TABLE II

c = 0.0						
$\eta$	$f$	$f'$	$f''$	$g$	$g'$	$g''$
0.0	0.000	0.000	1.233	0.000	0.000	0.570
0.1	0.006	0.118	1.133	0.003	0.057	0.570
0.2	0.023	0.227	1.034	0.011	0.114	0.570
0.3	0.051	0.325	0.939	0.026	0.171	0.568
0.4	0.088	0.414	0.846	0.046	0.227	0.564
0.5	0.134	0.495	0.758	0.071	0.284	0.557
0.6	0.187	0.566	0.675	0.102	0.339	0.549
0.7	0.247	0.630	0.597	0.139	0.393	0.537
0.8	0.312	0.686	0.525	0.181	0.446	0.522
0.9	0.384	0.735	0.459	0.228	0.498	0.504
1.0	0.459	0.778	0.398	0.280	0.547	0.483
1.1	0.539	0.815	0.343	0.337	0.594	0.460
1.2	0.622	0.847	0.294	0.399	0.639	0.434
1.3	0.708	0.874	0.250	0.465	0.681	0.406
1.4	0.797	0.897	0.211	0.535	0.720	0.377
1.5	0.887	0.916	0.177	0.609	0.756	0.346
1.6	0.980	0.932	0.147	0.686	0.789	0.315
1.7	1.074	0.946	0.122	0.767	0.819	0.285
1.8	1.169	0.957	0.100	0.850	0.846	0.254
1.9	1.265	0.966	0.081	0.936	0.870	0.225
2.0	1.362	0.973	0.066	1.024	0.891	0.198
2.2	1.558	0.984	0.042	1.206	0.926	0.148
2.4	1.755	0.991	0.026	1.394	0.951	0.106
2.6	1.954	0.995	0.016	1.586	0.969	0.073
2.8	2.153	0.997	0.009	1.781	0.981	0.048
3.0	2.353	0.998	0.005	1.978	0.989	0.031
3.2	2.552	0.999	0.003	2.176	0.993	0.019
3.4	2.752	1.000	0.001	2.375	0.996	0.011
3.6	2.952	1.000	0.001	2.574	0.998	0.006
3.8	3.152	1.000	0.000	2.774	0.999	0.003
4.0	3.352	1.000	0.000	2.974	1.000	0.002
4.5	3.852	1.000	0.000	3.474	1.000	0.000

TABLE II cont.

c = -0.25						
$\eta$	$f$	$f'$	$f''$	$g$	$g'$	$g''$
0.0	0.000	0.000	1.225	0.000	0.000	0.268
0.1	0.006	0.118	1.125	0.001	0.028	0.293
0.2	0.023	0.225	1.027	0.006	0.059	0.317
0.3	0.051	0.323	0.931	0.013	0.092	0.341
0.4	0.087	0.412	0.839	0.024	0.127	0.364
0.5	0.133	0.491	0.752	0.039	0.164	0.384
0.6	0.185	0.562	0.669	0.057	0.204	0.403
0.7	0.245	0.625	0.592	0.079	0.245	0.418
0.8	0.310	0.681	0.521	0.106	0.287	0.431
0.9	0.381	0.729	0.455	0.137	0.331	0.440
1.0	0.456	0.772	0.396	0.172	0.375	0.445
1.1	0.535	0.809	0.342	0.212	0.419	0.446
1.2	0.617	0.841	0.294	0.256	0.464	0.443
1.3	0.703	0.868	0.251	0.305	0.508	0.436
1.4	0.791	0.891	0.213	0.358	0.551	0.425
1.5	0.881	0.910	0.179	0.415	0.593	0.411
1.6	0.973	0.927	0.150	0.476	0.633	0.394
1.7	1.066	0.941	0.125	0.541	0.672	0.374
1.8	1.161	0.952	0.104	0.610	0.708	0.352
1.9	1.257	0.961	0.086	0.683	0.742	0.328
2.0	1.353	0.969	0.070	0.759	0.774	0.303
2.2	1.548	0.981	0.046	0.919	0.829	0.252
2.4	1.745	0.988	0.030	1.090	0.875	0.203
2.6	1.943	0.993	0.019	1.268	0.911	0.157
2.8	2.142	0.996	0.011	1.453	0.938	0.118
3.0	2.341	0.998	0.007	1.643	0.958	0.086
3.2	2.541	0.999	0.004	1.836	0.973	0.060
3.4	2.741	0.999	0.002	2.032	0.983	0.041
3.6	2.941	1.000	0.001	2.229	0.989	0.027
3.8	3.141	1.000	0.001	2.427	0.994	0.017
4.0	3.341	1.000	0.000	2.626	0.996	0.010
4.5	3.841	1.000	0.000	3.125	0.999	0.003
5.0	4.341	1.000	0.000	3.625	1.000	0.001

TABLE II cont.

c = -0.4294						
$\eta$	$f$	$f'$	$f''$	$g$	$g'$	$g''$
0.0	0.000	0.000	1.227	0.000	0.000	0.000
0.1	0.006	0.118	1.128	0.000	0.002	0.043
0.2	0.023	0.226	1.029	0.001	0.009	0.086
0.3	0.051	0.324	0.933	0.002	0.019	0.128
0.4	0.088	0.412	0.841	0.005	0.034	0.170
0.5	0.133	0.492	0.753	0.009	0.053	0.211
0.6	0.186	0.563	0.670	0.015	0.076	0.250
0.7	0.245	0.626	0.593	0.024	0.103	0.287
0.8	0.311	0.682	0.521	0.036	0.134	0.321
0.9	0.381	0.731	0.455	0.051	0.167	0.352
1.0	0.457	0.773	0.395	0.070	0.204	0.379
1.1	0.536	0.810	0.341	0.092	0.243	0.402
1.2	0.618	0.841	0.292	0.118	0.284	0.420
1.3	0.704	0.868	0.249	0.149	0.327	0.433
1.4	0.792	0.891	0.211	0.184	0.371	0.441
1.5	0.882	0.911	0.178	0.223	0.415	0.444
1.6	0.974	0.927	0.149	0.267	0.460	0.443
1.7	1.068	0.941	0.124	0.315	0.504	0.436
1.8	1.162	0.952	0.103	0.368	0.547	0.426
1.9	1.258	0.961	0.085	0.424	0.589	0.411
2.0	1.354	0.969	0.069	0.485	0.629	0.393
2.2	1.549	0.980	0.046	0.619	0.703	0.351
2.4	1.746	0.988	0.030	0.766	0.769	0.302
2.6	1.944	0.993	0.019	0.925	0.824	0.251
2.8	2.143	0.996	0.012	1.095	0.869	0.202
3.0	2.343	0.997	0.007	1.272	0.905	0.158
3.2	2.542	0.998	0.004	1.456	0.933	0.120
3.4	2.742	0.999	0.002	1.645	0.954	0.089
3.6	2.942	1.000	0.001	1.837	0.969	0.063
3.8	3.142	1.000	0.001	2.032	0.979	0.044
4.0	3.342	1.000	0.000	2.229	0.987	0.030
4.5	3.842	1.000	0.000	2.725	0.996	0.010
5.0	4.342	1.000	0.000	3.224	0.999	0.003



TABLE II cont.

c = -0.50						
$\eta$	$f$	$f'$	$f''$	$g$	$g'$	$g''$
0.0	0.000	0.000	1.230	0.000	0.000	-0.112
0.1	0.006	0.118	1.130	0.000	-0.009	-0.061
0.2	0.023	0.226	1.032	-0.002	-0.012	-0.011
0.3	0.051	0.325	0.936	-0.003	-0.011	0.038
0.4	0.088	0.413	0.844	-0.004	-0.005	0.088
0.5	0.133	0.493	0.755	-0.004	0.007	0.137
0.6	0.186	0.565	0.672	-0.002	0.023	0.184
0.7	0.246	0.628	0.594	0.001	0.043	0.230
0.8	0.312	0.684	0.522	0.007	0.069	0.272
0.9	0.382	0.733	0.455	0.015	0.098	0.312
1.0	0.458	0.775	0.395	0.026	0.131	0.348
1.1	0.537	0.812	0.340	0.041	0.167	0.379
1.2	0.620	0.843	0.292	0.060	0.207	0.406
1.3	0.706	0.870	0.248	0.083	0.248	0.427
1.4	0.794	0.893	0.210	0.110	0.292	0.443
1.5	0.884	0.912	0.176	0.141	0.337	0.453
1.6	0.976	0.928	0.147	0.177	0.382	0.458
1.7	1.070	0.942	0.123	0.217	0.428	0.457
1.8	1.165	0.953	0.101	0.263	0.473	0.452
1.9	1.260	0.962	0.083	0.312	0.518	0.442
2.0	1.357	0.970	0.068	0.366	0.562	0.428
2.2	1.552	0.981	0.045	0.487	0.644	0.389
2.4	1.749	0.988	0.029	0.623	0.717	0.342
2.6	1.947	0.993	0.018	0.773	0.780	0.291
2.8	2.146	0.996	0.011	0.934	0.833	0.240
3.0	2.345	0.997	0.007	1.106	0.876	0.192
3.2	2.545	0.999	0.004	1.284	0.911	0.149
3.4	2.745	0.999	0.002	1.469	0.937	0.113
3.6	2.945	1.000	0.001	1.659	0.956	0.083
3.8	3.145	1.000	0.001	1.851	0.970	0.060
4.0	3.345	1.000	0.000	2.046	0.980	0.042
4.5	3.845	1.000	0.000	2.540	0.994	0.015
5.0	4.345	1.000	0.000	3.039	0.998	0.005

TABLE II cont.

$c = -0.75$						
$y$	$f$	$f'$	$f''$	$g$	$g'$	$g''$
0.0	0.000	0.000	1.247	0.000	0.000	-0.482
0.1	0.006	0.120	1.148	-0.002	-0.044	-0.407
0.2	0.024	0.230	1.049	-0.009	-0.081	-0.332
0.3	0.052	0.330	0.952	-0.018	-0.111	-0.256
0.4	0.089	0.420	0.858	-0.031	-0.133	-0.180
0.5	0.135	0.501	0.768	-0.045	-0.147	-0.105
0.6	0.189	0.574	0.683	-0.060	-0.154	-0.030
0.7	0.250	0.638	0.602	-0.075	-0.153	0.043
0.8	0.317	0.695	0.528	-0.090	-0.145	0.113
0.9	0.389	0.744	0.458	-0.104	-0.130	0.181
1.0	0.465	0.786	0.395	-0.116	-0.109	0.244
1.1	0.546	0.823	0.338	-0.126	-0.082	0.302
1.2	0.630	0.854	0.288	-0.132	-0.049	0.354
1.3	0.716	0.881	0.242	-0.135	-0.011	0.400
1.4	0.806	0.903	0.203	-0.134	0.031	0.438
1.5	0.897	0.922	0.169	-0.129	0.076	0.470
1.6	0.990	0.937	0.139	-0.119	0.124	0.494
1.7	1.084	0.950	0.114	-0.104	0.175	0.511
1.8	1.180	0.960	0.093	-0.084	0.226	0.521
1.9	1.276	0.968	0.075	-0.059	0.279	0.524
2.0	1.373	0.975	0.060	-0.028	0.331	0.521
2.2	1.569	0.985	0.038	0.048	0.433	0.499
2.4	1.767	0.991	0.024	0.145	0.529	0.461
2.6	1.965	0.995	0.015	0.259	0.617	0.411
2.8	2.164	0.997	0.009	0.391	0.694	0.357
3.0	2.364	0.998	0.005	0.536	0.759	0.301
3.2	2.564	0.999	0.003	0.694	0.814	0.248
3.4	2.764	0.999	0.002	0.861	0.859	0.200
3.6	2.963	1.000	0.001	1.037	0.895	0.158
3.8	3.163	1.000	0.001	1.219	0.923	0.122
4.0	3.363	1.000	0.000	1.405	0.944	0.093
4.5	3.863	1.000	0.000	1.886	0.977	0.043
5.0	4.363	1.000	0.000	2.379	0.991	0.018

TABLE II cont.

c = -1.0						
$\eta$	$f$	$f'$	$f''$	$g$	$g'$	$g''$
0.0	0.000	0.000	1.273	0.000	0.000	-0.811
0.1	0.006	0.122	1.173	-0.004	-0.076	-0.711
0.2	0.024	0.235	1.074	-0.015	-0.142	-0.611
0.3	0.053	0.337	0.976	-0.032	-0.198	-0.510
0.4	0.091	0.430	0.880	-0.054	-0.244	-0.410
0.5	0.138	0.513	0.788	-0.081	-0.280	-0.311
0.6	0.194	0.588	0.699	-0.110	-0.307	-0.213
0.7	0.256	0.653	0.614	-0.142	-0.323	-0.117
0.8	0.324	0.711	0.535	-0.174	-0.330	-0.025
0.9	0.398	0.760	0.462	-0.207	-0.328	0.063
1.0	0.476	0.803	0.395	-0.240	-0.318	0.146
1.1	0.558	0.840	0.335	-0.270	-0.299	0.222
1.2	0.644	0.870	0.281	-0.299	-0.273	0.291
1.3	0.732	0.896	0.233	-0.325	-0.241	0.352
1.4	0.823	0.917	0.192	-0.347	-0.203	0.405
1.5	0.915	0.935	0.156	-0.365	-0.160	0.449
1.6	1.009	0.949	0.126	-0.379	-0.114	0.485
1.7	1.105	0.960	0.101	-0.388	-0.064	0.512
1.8	1.201	0.969	0.080	-0.392	-0.012	0.531
1.9	1.299	0.976	0.063	-0.390	0.042	0.543
2.0	1.396	0.982	0.049	-0.383	0.097	0.548
2.2	1.594	0.990	0.029	-0.353	0.206	0.539
2.4	1.792	0.994	0.017	-0.301	0.311	0.513
2.6	1.991	0.997	0.010	-0.229	0.410	0.473
2.8	2.191	0.998	0.005	-0.138	0.500	0.427
3.0	2.390	0.999	0.003	-0.030	0.581	0.377
3.2	2.590	1.000	0.002	0.094	0.651	0.328
3.4	2.790	1.000	0.001	0.230	0.712	0.281
3.6	2.990	1.000	0.000	0.378	0.764	0.238
3.8	3.190	1.000	0.000	0.535	0.807	0.199
4.0	3.390	1.000	0.000	0.700	0.844	0.166
4.5	3.890	1.000	0.000	1.140	0.909	0.101
5.0	4.390	1.000	0.000	1.605	0.948	0.059
5.5	4.890	1.000	0.000	2.086	0.971	0.034