

Table 6.8 DIGAMMA FUNCTION FOR COMPLEX ARGUMENTS

$x=1.3$						$x=1.4$					
y	$\Re\psi(z)$	$\Im\psi(z)$	y	$\Re\psi(z)$	$\Im\psi(z)$	y	$\Re\psi(z)$	$\Im\psi(z)$	y	$\Re\psi(z)$	$\Im\psi(z)$
0.0	-0.16919	0.00000	5.0	1.62052	1.41163	0.0	-0.06138	0.00000	5.0	1.62386	1.39213
0.1	-0.16323	0.11303	5.1	1.63990	1.41472	0.1	-0.05646	0.10223	5.1	1.64311	1.39559
0.2	-0.14567	0.22372	5.2	1.65891	1.41769	0.2	-0.04192	0.20269	5.2	1.66200	1.39891
0.3	-0.11748	0.32997	5.3	1.67758	1.42055	0.3	-0.01844	0.29974	5.3	1.68055	1.40211
0.4	-0.08009	0.43011	5.4	1.69591	1.42331	0.4	+0.01295	0.39204	5.4	1.69878	1.40519
0.5	-0.03520	0.52298	5.5	1.71392	1.42597	0.5	0.05100	0.47862	5.5	1.71668	1.40817
0.6	+0.01541	0.60796	5.6	1.73161	1.42853	0.6	0.09436	0.55886	5.6	1.73428	1.41103
0.7	0.07003	0.68491	5.7	1.74900	1.43101	0.7	0.14171	0.63250	5.7	1.75158	1.41380
0.8	0.12718	0.75404	5.8	1.76611	1.43340	0.8	0.19183	0.69957	5.8	1.76860	1.41648
0.9	0.18561	0.81582	5.9	1.78292	1.43571	0.9	0.24367	0.76033	5.9	1.78533	1.41907
1.0	0.24434	0.87085	6.0	1.79947	1.43794	1.0	0.29635	0.81517	6.0	1.80180	1.42157
1.1	0.30262	0.91983	6.1	1.81575	1.44011	1.1	0.34918	0.86457	6.1	1.81800	1.42399
1.2	0.35994	0.96341	6.2	1.83177	1.44220	1.2	0.40163	0.90903	6.2	1.83395	1.42634
1.3	0.41593	1.00227	6.3	1.84754	1.44423	1.3	0.45331	0.94907	6.3	1.84966	1.42861
1.4	0.47035	1.03698	6.4	1.86308	1.44619	1.4	0.50395	0.98517	6.4	1.86513	1.43081
1.5	0.52310	1.06809	6.5	1.87837	1.44810	1.5	0.55336	1.01778	6.5	1.88036	1.43294
1.6	0.57409	1.09605	6.6	1.89344	1.44995	1.6	0.60144	1.04730	6.6	1.89537	1.43502
1.7	0.62333	1.12126	6.7	1.90829	1.45174	1.7	0.64811	1.07409	6.7	1.91017	1.43702
1.8	0.67084	1.14409	6.8	1.92293	1.45348	1.8	0.69337	1.09849	6.8	1.92475	1.43898
1.9	0.71667	1.16483	6.9	1.93735	1.45517	1.9	0.73722	1.12075	6.9	1.93912	1.44087
2.0	0.76087	1.18373	7.0	1.95158	1.45681	2.0	0.77968	1.14113	7.0	1.95330	1.44271
2.1	0.80353	1.20102	7.1	1.96560	1.45841	2.1	0.82078	1.15984	7.1	1.96727	1.44450
2.2	0.84470	1.21688	7.2	1.97944	1.45996	2.2	0.86058	1.17707	7.2	1.98106	1.44625
2.3	0.88447	1.23148	7.3	1.99309	1.46147	2.3	0.89913	1.19296	7.3	1.99467	1.44794
2.4	0.92290	1.24495	7.4	2.00655	1.46294	2.4	0.93647	1.20768	7.4	2.00809	1.44959
2.5	0.96007	1.25743	7.5	2.01984	1.46438	2.5	0.97265	1.22133	7.5	2.02134	1.45119
2.6	0.99604	1.26900	7.6	2.03296	1.46577	2.6	1.00775	1.23402	7.6	2.03442	1.45276
2.7	1.03088	1.27976	7.7	2.04591	1.46713	2.7	1.04179	1.24585	7.7	2.04733	1.45428
2.8	1.06464	1.28980	7.8	2.05869	1.46845	2.8	1.07484	1.25689	7.8	2.06008	1.45576
2.9	1.09739	1.29918	7.9	2.07131	1.46974	2.9	1.10693	1.26723	7.9	2.07267	1.45721
3.0	1.12917	1.30797	8.0	2.08378	1.47100	3.0	1.13813	1.27693	8.0	2.08510	1.45862
3.1	1.16004	1.31621	8.1	2.09610	1.47223	3.1	1.16846	1.28604	8.1	2.09739	1.46000
3.2	1.19005	1.32396	8.2	2.10827	1.47342	3.2	1.19797	1.29461	8.2	2.10952	1.46134
3.3	1.21923	1.33126	8.3	2.12029	1.47459	3.3	1.22670	1.30269	8.3	2.12151	1.46266
3.4	1.24763	1.33814	8.4	2.13217	1.47573	3.4	1.25469	1.31032	8.4	2.13337	1.46394
3.5	1.27529	1.34464	8.5	2.14391	1.47685	3.5	1.28196	1.31753	8.5	2.14508	1.46519
3.6	1.30223	1.35080	8.6	2.15552	1.47794	3.6	1.30855	1.32436	8.6	2.15666	1.46641
3.7	1.32851	1.35663	8.7	2.16700	1.47900	3.7	1.33450	1.33084	8.7	2.16811	1.46760
3.8	1.35413	1.36216	8.8	2.17834	1.48004	3.8	1.35983	1.33699	8.8	2.17943	1.46877
3.9	1.37915	1.36742	8.9	2.18956	1.48106	3.9	1.38456	1.34283	8.9	2.19063	1.46991
4.0	1.40357	1.37242	9.0	2.20066	1.48205	4.0	1.40873	1.34840	9.0	2.20170	1.47103
4.1	1.42744	1.37718	9.1	2.21163	1.48302	4.1	1.43235	1.35370	9.1	2.21265	1.47212
4.2	1.45077	1.38172	9.2	2.22249	1.48397	4.2	1.45546	1.35876	9.2	2.22349	1.47319
4.3	1.47358	1.38606	9.3	2.23323	1.48490	4.3	1.47806	1.36359	9.3	2.23421	1.47423
4.4	1.49590	1.39020	9.4	2.24386	1.48582	4.4	1.50019	1.36821	9.4	2.24481	1.47525
4.5	1.51775	1.39416	9.5	2.25437	1.48671	4.5	1.52185	1.37263	9.5	2.25531	1.47626
4.6	1.53914	1.39795	9.6	2.26478	1.48758	4.6	1.54307	1.37686	9.6	2.26570	1.47724
4.7	1.56010	1.40158	9.7	2.27508	1.48844	4.7	1.56387	1.38092	9.7	2.27598	1.47820
4.8	1.58064	1.40507	9.8	2.28528	1.48927	4.8	1.58425	1.38481	9.8	2.28616	1.47914
4.9	1.60078	1.40841	9.9	2.29537	1.49010	4.9	1.60425	1.38854	9.9	2.29623	1.48006
5.0	1.62052	1.41163	10.0	2.30537	1.49090	5.0	1.62386	1.39213	10.0	2.30621	1.48096
	$\begin{bmatrix} (-3)2 \\ 5 \end{bmatrix}$	$\begin{bmatrix} (-3)1 \\ 5 \end{bmatrix}$		$\begin{bmatrix} (-5)5 \\ 3 \end{bmatrix}$	$\begin{bmatrix} (-5)2 \\ 3 \end{bmatrix}$		$\begin{bmatrix} (-3)1 \\ 4 \end{bmatrix}$	$\begin{bmatrix} (-4)8 \\ 4 \end{bmatrix}$		$\begin{bmatrix} (-5)5 \\ 3 \end{bmatrix}$	$\begin{bmatrix} (-5)2 \\ 3 \end{bmatrix}$