

Table 6.8 DIGAMMA FUNCTION FOR COMPLEX ARGUMENTS

$x=1.7$						$x=1.8$					
$y$	$\Re\psi(z)$	$\Im\psi(z)$	$y$	$\Re\psi(z)$	$\Im\psi(z)$	$y$	$\Re\psi(z)$	$\Im\psi(z)$	$y$	$\Re\psi(z)$	$\Im\psi(z)$
0.0	0.20855	0.00000	5.0	1.63603	1.33453	0.0	0.28499	0.00000	5.0	1.64078	1.31566
0.1	0.21156	0.07918	5.1	1.65482	1.33902	0.1	0.28760	0.07358	5.1	1.65939	1.32048
0.2	0.22050	0.15747	5.2	1.67328	1.34335	0.2	0.29537	0.14644	5.2	1.67769	1.32513
0.3	0.23511	0.23407	5.3	1.69142	1.34752	0.3	0.30809	0.21792	5.3	1.69567	1.32961
0.4	0.25494	0.30824	5.4	1.70926	1.35154	0.4	0.32541	0.28740	5.4	1.71336	1.33393
0.5	0.27945	0.37937	5.5	1.72680	1.35543	0.5	0.34693	0.35437	5.5	1.73076	1.33810
0.6	0.30803	0.44701	5.6	1.74405	1.35918	0.6	0.37215	0.41842	5.6	1.74787	1.34213
0.7	0.34001	0.51086	5.7	1.76102	1.36280	0.7	0.40053	0.47928	5.7	1.76472	1.34603
0.8	0.37474	0.57074	5.8	1.77772	1.36630	0.8	0.43155	0.53675	5.8	1.78130	1.34979
0.9	0.41161	0.62661	5.9	1.79416	1.36969	0.9	0.46469	0.59076	5.9	1.79762	1.35344
1.0	0.45005	0.67852	6.0	1.81034	1.37297	1.0	0.49947	0.64131	6.0	1.81369	1.35697
1.1	0.48957	0.72661	6.1	1.82627	1.37614	1.1	0.53546	0.68847	6.1	1.82952	1.36038
1.2	0.52973	0.77107	6.2	1.84196	1.37922	1.2	0.57226	0.73237	6.2	1.84511	1.36369
1.3	0.57018	0.81211	6.3	1.85742	1.38220	1.3	0.60955	0.77316	6.3	1.86047	1.36690
1.4	0.61063	0.84996	6.4	1.87266	1.38509	1.4	0.64706	0.81103	6.4	1.87561	1.37001
1.5	0.65085	0.88488	6.5	1.88767	1.38789	1.5	0.68455	0.84617	6.5	1.89053	1.37303
1.6	0.69065	0.91710	6.6	1.90246	1.39061	1.6	0.72184	0.87877	6.6	1.90525	1.37596
1.7	0.72990	0.94685	6.7	1.91705	1.39326	1.7	0.75879	0.90903	6.7	1.91975	1.37881
1.8	0.76849	0.97436	6.8	1.93143	1.39582	1.8	0.79528	0.93713	6.8	1.93406	1.38158
1.9	0.80636	0.99982	6.9	1.94562	1.39832	1.9	0.83122	0.96326	6.9	1.94817	1.38426
2.0	0.84345	1.02342	7.0	1.95961	1.40074	2.0	0.86655	0.98757	7.0	1.96210	1.38688
2.1	0.87973	1.04533	7.1	1.97342	1.40310	2.1	0.90123	1.01022	7.1	1.97583	1.38942
2.2	0.91519	1.06570	7.2	1.98704	1.40539	2.2	0.93523	1.03136	7.2	1.98939	1.39189
2.3	0.94981	1.08468	7.3	2.00048	1.40762	2.3	0.96853	1.05110	7.3	2.00277	1.39430
2.4	0.98362	1.10238	7.4	2.01375	1.40980	2.4	1.00111	1.06957	7.4	2.01598	1.39664
2.5	1.01661	1.11893	7.5	2.02685	1.41191	2.5	1.03299	1.08687	7.5	2.02903	1.39892
2.6	1.04879	1.13441	7.6	2.03979	1.41398	2.6	1.06416	1.10310	7.6	2.04191	1.40115
2.7	1.08020	1.14893	7.7	2.05256	1.41599	2.7	1.09463	1.11836	7.7	2.05463	1.40332
2.8	1.11084	1.16257	7.8	2.06518	1.41794	2.8	1.12442	1.13270	7.8	2.06719	1.40543
2.9	1.14075	1.17539	7.9	2.07764	1.41986	2.9	1.15353	1.14622	7.9	2.07960	1.40749
3.0	1.16993	1.18747	8.0	2.08996	1.42172	3.0	1.18200	1.15898	8.0	2.09187	1.40950
3.1	1.19842	1.19886	8.1	2.10212	1.42354	3.1	1.20982	1.17103	8.1	2.10399	1.41146
3.2	1.22625	1.20962	8.2	2.11415	1.42531	3.2	1.23703	1.18243	8.2	2.11597	1.41338
3.3	1.25342	1.21981	8.3	2.12603	1.42704	3.3	1.26363	1.19322	8.3	2.12781	1.41525
3.4	1.27997	1.22945	8.4	2.13778	1.42874	3.4	1.28965	1.20345	8.4	2.13952	1.41708
3.5	1.30592	1.23859	8.5	2.14939	1.43039	3.5	1.31511	1.21317	8.5	2.15109	1.41886
3.6	1.33129	1.24727	8.6	2.16087	1.43200	3.6	1.34003	1.22241	8.6	2.16253	1.42061
3.7	1.35610	1.25553	8.7	2.17222	1.43358	3.7	1.36441	1.23119	8.7	2.17385	1.42231
3.8	1.38037	1.26338	8.8	2.18345	1.43513	3.8	1.38829	1.23956	8.8	2.18504	1.42398
3.9	1.40413	1.27087	8.9	2.19456	1.43664	3.9	1.41168	1.24754	8.9	2.19611	1.42561
4.0	1.42738	1.27800	9.0	2.20555	1.43811	4.0	1.43459	1.25516	9.0	2.20707	1.42720
4.1	1.45015	1.28481	9.1	2.21642	1.43956	4.1	1.45704	1.26243	9.1	2.21790	1.42876
4.2	1.47246	1.29132	9.2	2.22717	1.44097	4.2	1.47904	1.26939	9.2	2.22862	1.43029
4.3	1.49432	1.29755	9.3	2.23781	1.44235	4.3	1.50062	1.27605	9.3	2.23923	1.43178
4.4	1.51574	1.30351	9.4	2.24834	1.44371	4.4	1.52178	1.28242	9.4	2.24974	1.43324
4.5	1.53675	1.30922	9.5	2.25877	1.44503	4.5	1.54254	1.28854	9.5	2.26013	1.43468
4.6	1.55736	1.31470	9.6	2.26908	1.44633	4.6	1.56292	1.29440	9.6	2.27042	1.43608
4.7	1.57758	1.31996	9.7	2.27930	1.44760	4.7	1.58291	1.30004	9.7	2.28061	1.43745
4.8	1.59742	1.32501	9.8	2.28941	1.44885	4.8	1.60255	1.30545	9.8	2.29069	1.43880
4.9	1.61690	1.32986	9.9	2.29942	1.45007	4.9	1.62183	1.31065	9.9	2.30068	1.44012
5.0	1.63603	1.33453	10.0	2.30933	1.45127	5.0	1.64078	1.31566	10.0	2.31057	1.44142
	$\begin{bmatrix} (-4)7 \\ 4 \end{bmatrix}$	$\begin{bmatrix} (-4)5 \\ 4 \end{bmatrix}$		$\begin{bmatrix} (-5)4 \\ 3 \end{bmatrix}$	$\begin{bmatrix} (-5)2 \\ 3 \end{bmatrix}$		$\begin{bmatrix} (-4)6 \\ 4 \end{bmatrix}$	$\begin{bmatrix} (-4)4 \\ 4 \end{bmatrix}$		$\begin{bmatrix} (-5)4 \\ 3 \end{bmatrix}$	$\begin{bmatrix} (-5)2 \\ 3 \end{bmatrix}$

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\*See page II.