

GAMMA, DIGAMMA AND TRIGAMMA FUNCTIONS

Table 6.1

x	$\Gamma(x)$		$\ln \Gamma(x)$		$\psi(x)$		$\psi'(x)$	
1.500	0.88622	69255	-0.12078	22376	0.03648	99740	0.93480	22005
1.505	0.88639	89744	-0.12058	81200	0.04115	36543	0.93067	57588
1.510	0.88659	16850	-0.12037	07353	0.04579	67896	0.92658	41142
1.515	0.88680	49797	-0.12013	01860	0.05041	95527	0.92252	68425
1.520	0.88703	87833	-0.11986	65735	0.05502	21146	0.91850	35265
1.525	0.88729	30231	-0.11957	99983	0.05960	46439	0.91451	37552
1.530	0.88756	76278	-0.11927	05601	0.06416	73074	0.91055	71245
1.535	0.88786	25287	-0.11893	83580	0.06871	02697	0.90663	32361
1.540	0.88817	76586	-0.11858	34900	0.07323	36936	0.90274	16984
1.545	0.88851	29527	-0.11820	60534	0.07773	77400	0.89888	21253
1.550	0.88886	83478	-0.11780	61446	0.08222	25675	0.89505	41371
1.555	0.88924	37830	-0.11738	38595	0.08668	83334	0.89125	73596
1.560	0.88963	91990	-0.11693	92928	0.09113	51925	0.88749	14249
1.565	0.89005	45387	-0.11647	25388	0.09556	32984	0.88375	59699
1.570	0.89048	97463	-0.11598	36908	0.09997	28024	0.88005	06378
1.575	0.89094	47686	-0.11547	28415	0.10436	38544	0.87637	50766
1.580	0.89141	95537	-0.11494	00828	0.10873	66023	0.87272	89402
1.585	0.89191	40515	-0.11438	55058	0.11309	11923	0.86911	18871
1.590	0.89242	82141	-0.11380	92009	0.11742	77690	0.86552	35815
1.595	0.89296	19949	-0.11321	12579	0.12174	64754	0.86196	36921
1.600	0.89351	53493	-0.11259	17657	0.12604	74528	0.85843	18931
1.605	0.89408	82342	-0.11195	08127	0.13033	08407	0.85492	78630
1.610	0.89468	06085	-0.11128	84864	0.13459	67772	0.85145	12856
1.615	0.89529	24327	-0.11060	48737	0.13884	53988	0.84800	18488
1.620	0.89592	36685	-0.10990	00610	0.14307	68404	0.84457	92455
1.625	0.89657	42800	-0.10917	41338	0.14729	12354	0.84118	31730
1.630	0.89724	42326	-0.10842	71769	0.15148	87158	0.83781	33330
1.635	0.89793	34930	-0.10765	92746	0.15566	94120	0.83446	94315
1.640	0.89864	20302	-0.10687	05105	0.15983	34529	0.83115	11790
1.645	0.89936	98138	-0.10606	09676	0.16398	09660	0.82785	82897
1.650	0.90011	68163	-0.10523	07282	0.16811	20776	0.82459	04826
1.655	0.90088	30104	-0.10437	98739	0.17222	69122	0.82134	74802
1.660	0.90166	83712	-0.10350	84860	0.17632	55933	0.81812	90092
1.665	0.90247	28748	-0.10261	66447	0.18040	82427	0.81493	48001
1.670	0.90329	64995	-0.10170	44301	0.18447	49813	0.81176	45875
1.675	0.90413	92243	-0.10077	19212	0.18852	59282	0.80861	81094
1.680	0.90500	10302	-0.09981	91969	0.19256	12015	0.80549	51079
1.685	0.90588	18996	-0.09884	63351	0.19658	09180	0.80239	53282
1.690	0.90678	18160	-0.09785	34135	0.20058	51931	0.79931	85198
1.695	0.90770	07650	-0.09684	05088	0.20457	41410	0.79626	44350
1.700	0.90863	87329	-0.09580	76974	0.20854	78749	0.79323	28302
1.705	0.90959	57079	-0.09475	50552	0.21250	65064	0.79022	34645
1.710	0.91057	16796	-0.09368	26573	0.21645	01462	0.78723	61012
1.715	0.91156	66390	-0.09259	05785	0.22037	89037	0.78427	05060
1.720	0.91258	05779	-0.09147	88929	0.22429	28871	0.78132	64486
1.725	0.91361	34904	-0.09034	76741	0.22819	22037	0.77840	37011
1.730	0.91466	53712	-0.08919	69951	0.23207	69593	0.77550	20396
1.735	0.91573	62171	-0.08802	69286	0.23594	72589	0.77262	12424
1.740	0.91682	60252	-0.08683	75466	0.23980	32061	0.76976	10915
1.745	0.91793	47950	-0.08562	89203	0.24364	49038	0.76692	13714
1.750	0.91906	25268	-0.08440	11210	0.24747	24535	0.76410	18699

 $y!$ $\ln y!$ $\frac{d}{dy} \ln y!$ $\frac{d^2}{dy^2} \ln y!$ y $\left[\begin{smallmatrix} (-6)3 \\ 4 \end{smallmatrix} \right]$ $\left[\begin{smallmatrix} (-6)3 \\ 4 \end{smallmatrix} \right]$ $\left[\begin{smallmatrix} (-6)3 \\ 4 \end{smallmatrix} \right]$ $\left[\begin{smallmatrix} (-6)4 \\ 5 \end{smallmatrix} \right]$ $\log_{10} e=0.43429 \ 44819$