

## LOGARITHMS OF THE GAMMA FUNCTION

Table 6.4

$n$	$\log_{10} \Gamma(n)$	$\log_{10} \Gamma(n + \frac{1}{3})$	$\log_{10} \Gamma(n + \frac{1}{2})$	$\log_{10} \Gamma(n + \frac{2}{3})$	$f_2(n)$
51	64.483075	65.051318	65.335796	65.620510	0.92057 250
52	66.190645	66.761717	67.047603	67.333720	0.92054 108
53	67.906648	68.480496	68.767762	69.055256	0.92051 084
54	69.630924	70.207494	70.496116	70.784961	0.92048 173
55	71.363318	71.942561	72.232512	72.522683	0.92045 367
56	73.103681	73.685548	73.976805	74.268279	0.92042 661
57	74.851869	75.436313	75.728854	76.021606	0.92040 051
58	76.607744	77.194720	77.488522	77.782531	0.92037 530
59	78.371172	78.960637	79.255677	79.550922	0.92035 095
60	80.142024	80.733936	81.030194	81.326654	0.92032 741
61	81.920175	82.514493	82.811950	83.109604	0.92030 464
62	83.705505	84.302190	84.600825	84.899655	0.92028 261
63	85.497896	86.096910	86.396705	86.696691	0.92026 127
64	87.297237	87.898542	88.199479	88.500604	0.92024 061
65	89.103417	89.706978	90.009038	90.311284	0.92022 057
66	90.916330	91.522113	91.825280	92.128629	0.92020 115
67	92.735874	93.343845	93.648101	93.952538	0.92018 231
68	94.561949	95.172075	95.477405	95.782913	0.92016 401
69	96.394458	97.006708	97.313096	97.619659	0.92014 625
70	98.233307	98.847650	99.155080	99.462684	0.92012 900
71	100.07841	100.69481	101.00327	101.31190	0.92011 223
72	101.92966	102.54810	102.85758	103.16722	0.92009 593
73	103.78700	104.40744	104.71791	105.02855	0.92008 008
74	105.65032	106.27274	106.58420	106.89582	0.92006 465
75	107.51955	108.14393	108.45636	108.76895	0.92004 964
76	109.39461	110.02091	110.33430	110.64785	0.92003 502
77	111.27543	111.90363	112.21797	112.53246	0.92002 078
78	113.16192	113.79200	114.10727	114.42269	0.92000 690
79	115.05401	115.68594	116.00214	116.31848	0.91999 338
80	116.95164	117.58540	117.90250	118.21976	0.91998 019
81	118.85473	119.49029	119.80830	120.12646	0.91996 733
82	120.76321	121.40056	121.71946	122.03850	0.91995 479
83	122.67703	123.31614	123.63591	123.95583	0.91994 254
84	124.59610	125.23696	125.55760	125.87838	0.91993 059
85	126.52038	127.16296	127.48445	127.80610	0.91991 892
86	128.44980	129.09407	129.41642	129.73891	0.91990 752
87	130.38430	131.03025	131.35344	131.67676	0.91989 638
88	132.32382	132.97143	133.29545	133.61959	0.91988 550
89	134.26830	134.91756	135.24239	135.56735	0.91987 486
90	136.21769	136.86857	137.19421	137.51999	0.91986 446
91	138.17194	138.82442	139.15086	139.47743	0.91985 428
92	140.13098	140.78505	141.11228	141.43964	0.91984 433
93	142.09477	142.75041	143.07842	143.40657	0.91983 459
94	144.06325	144.72044	145.04923	145.37815	0.91982 505
95	146.03638	146.69511	147.02467	147.35435	0.91981 572
96	148.01410	148.67435	149.00467	149.33511	0.91980 659
97	149.99637	150.65813	150.98920	151.32039	0.91979 764
98	151.98314	152.64639	152.97820	153.31013	0.91978 887
99	153.97437	154.63909	154.97164	155.30430	0.91978 028
100	155.97000	156.63619	156.96946	157.30285	0.91977 186
101	157.97000 $\log_{10}(n-1)!$ $\ln \Gamma(n) = \ln(n-1)! = (n-\frac{1}{2}) \ln n - n + f_2(n)$	158.63763 $\log_{10}(n-\frac{2}{3})!$	158.97163 $\log_{10}(n-\frac{1}{2})!$	159.30574 $\log_{10}(n-\frac{1}{3})!$	0.91976 361 $\left[ \begin{smallmatrix} (-7) & 2 \\ 3 & \end{smallmatrix} \right]$
				$\ln 10 = 2.30258$	509299