

KELVIN FUNCTIONS—ORDERS 0 AND 1

Table 9.12

$x$	ker $x$	kei $x$	ker <sub>1</sub> $x$	kei <sub>1</sub> $x$
0.0	$\infty$	-0.78539 8163	$-\infty$	$-\infty$
0.1	2.42047 3980	-0.77685 0646	-7.14668 1711	-6.94024 2153
0.2	1.73314 2752	-0.75812 4933	-3.63868 3342	-3.32341 7218
0.3	1.33721 8637	-0.73310 1912	-2.47074 2357	-2.08283 4751
0.4	1.06262 3902	-0.70380 0212	-1.88202 4050	-1.44430 5150
0.5	0.85590 5872	-0.67158 1695	-1.52240 3406	-1.05118 2085
0.6	0.69312 0695	-0.63744 9494	-1.27611 7712	-0.78373 8860
0.7	0.56137 8274	-0.60217 5451	-1.09407 2943	-0.59017 5251
0.8	0.45288 2093	-0.56636 7650	-0.95203 2751	-0.44426 9985
0.9	0.36251 4812	-0.53051 1122	-0.83672 7829	-0.33122 6820
1.0	0.28670 6208	-0.49499 4636	-0.74032 2276	-0.24199 5966
1.1	0.22284 4513	-0.46012 9528	-0.65791 0729	-0.17068 4462
1.2	0.16894 5592	-0.42616 3604	-0.58627 4386	-0.11325 6800
1.3	0.12345 5395	-0.39329 1826	-0.52321 5989	-0.06683 2622
1.4	0.08512 6048	-0.36166 4781	-0.46718 3076	-0.02928 3749
1.5	0.05293 4915	-0.33139 5562	-0.41704 4285	+0.00100 8681
1.6	0.02602 9861	-0.30256 5474	-0.37195 1238	0.02530 6776
1.7	+0.00369 1104	-0.27522 8834	-0.33125 0485	0.04461 5190
1.8	-0.01469 6087	-0.24941 7069	-0.29442 5803	0.05974 7779
1.9	-0.02966 1407	-0.22514 2235	-0.26105 9495	0.07137 3592
2.0	-0.04166 4514	-0.20240 0068	-0.23080 5929	0.08004 9398
2.1	-0.05110 6500	-0.18117 2644	-0.20337 3135	0.08624 3202
2.2	-0.05833 8834	-0.16143 0701	-0.17850 9812	0.09035 1619
2.3	-0.06367 0454	-0.14313 5677	-0.15599 6054	0.09271 2940
2.4	-0.06737 3493	-0.12624 1488	-0.13563 6638	0.09361 7161
2.5	-0.06968 7972	-0.11069 6099	-0.11725 6136	0.09331 3788
2.6	-0.07082 5700	-0.09644 2891	-0.10069 5314	0.09201 8037
2.7	-0.07097 3560	-0.08342 1858	-0.08580 8451	0.08991 5810
2.8	-0.07029 6321	-0.07157 0648	-0.07246 1339	0.08716 7762
2.9	-0.06893 9052	-0.06082 5473	-0.06052 9755	0.08391 2666
3.0	-0.06702 9233	-0.05112 1884	-0.04989 8308	0.08027 0223
3.1	-0.06467 8610	-0.04239 5446	-0.04045 9533	0.07634 3451
3.2	-0.06198 4833	-0.03458 2313	-0.03211 3183	0.07222 0724
3.3	-0.05903 2916	-0.02761 9697	-0.02476 5662	0.06797 7529
3.4	-0.05589 6550	-0.02144 6287	-0.01832 9556	0.06367 7999
3.5	-0.05263 9277	-0.01600 2568	-0.01272 3249	0.05937 6256
3.6	-0.04931 5556	-0.01123 1096	-0.00787 0585	0.05511 7592
3.7	-0.04597 1723	-0.00707 6704	-0.00370 0576	0.05093 9514
3.8	-0.04264 6864	-0.00348 6665	-0.00014 7138	0.04687 2681
3.9	-0.03937 3608	-0.00041 0809	+0.00285 1155	0.04294 1728
4.0	-0.03617 8848	+0.00219 8399	0.00535 1296	0.03916 6011
4.1	-0.03308 4395	0.00438 5818	0.00740 6063	0.03556 0272
4.2	-0.03010 7574	0.00619 3613	0.00906 4226	0.03213 5235
4.3	-0.02726 1764	0.00766 1269	0.01037 0752	0.02889 8142
4.4	-0.02455 6892	0.00882 5624	0.01136 6998	0.02585 3229
4.5	-0.02199 9875	0.00972 0918	0.01209 0904	0.02300 2160
4.6	-0.01959 5024	0.01037 8865	0.01257 7182	0.02034 4409
4.7	-0.01734 4409	0.01082 8725	0.01285 7498	0.01787 7607
4.8	-0.01524 8188	0.01109 7399	0.01296 0651	0.01559 7847
4.9	-0.01330 4899	0.01120 9526	0.01291 2753	0.01349 9960
5.0	-0.01151 1727	0.01118 7587	0.01273 7390	0.01157 7754

KELVIN FUNCTIONS—AUXILIARY TABLE FOR SMALL ARGUMENTS

$x$	ker $x$ +ber $x$ ln $x$	kei $x$ +bei $x$ ln $x$	$x$ (ker <sub>1</sub> $x$ +ber <sub>1</sub> $x$ ln $x$ )	$x$ (kei <sub>1</sub> $x$ +bei <sub>1</sub> $x$ ln $x$ )
0.5	0.16343 5574	-0.71489 8693	-0.69804 1049	-0.58492 2770
0.6	0.18332 9435	-0.68341 3456	-0.69777 1567	-0.53229 1460
0.7	0.20604 1279	-0.64584 9920	-0.70035 3648	-0.47105 2294
0.8	0.23116 6407	-0.60204 5231	-0.70720 4389	-0.40176 2012
0.9	0.25823 4099	-0.55182 2327	-0.71993 1903	-0.32512 0736
1.0	0.28670 6208 $\left[ \begin{smallmatrix} (-4)4 \\ 7 \end{smallmatrix} \right]$	-0.49499 4636 $\left[ \begin{smallmatrix} (-4)8 \\ 7 \end{smallmatrix} \right]$	-0.74032 2276 $\left[ \begin{smallmatrix} (-3)1 \\ 7 \end{smallmatrix} \right]$	-0.24199 5966 $\left[ \begin{smallmatrix} (-3)1 \\ 7 \end{smallmatrix} \right]$