

NORMAL PROBABILITY FUNCTION—VALUES OF x FOR EXTREME VALUES OF $P(x)$ AND $Q(x)$ Table 26.6

$Q(x)$	0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009	0.0010	
0.000	∞	3.71902	3.54008	3.43161	3.35279	3.29053	3.23888	3.19465	3.15591	3.12139	3.09023	0.999
0.001	3.09023	3.06181	3.03567	3.01145	2.98888	2.96774	2.94784	2.92905	2.91124	2.89430	2.87816	0.998
0.002	2.87816	2.86274	2.84796	2.83379	2.82016	2.80703	2.79438	2.78215	2.77033	2.75888	2.74778	0.997
0.003	2.74778	2.73701	2.72655	2.71638	2.70648	2.69684	2.68745	2.67829	2.66934	2.66061	2.65207	0.996
0.004	2.65207	2.64372	2.63555	2.62756	2.61973	2.61205	2.60453	2.59715	2.58991	2.58281	2.57583	0.995
0.005	2.57583	2.56897	2.56224	2.55562	2.54910	2.54270	2.53640	2.53019	2.52408	2.51807	2.51214	0.994
0.006	2.51214	2.50631	2.50055	2.49488	2.48929	2.48377	2.47833	2.47296	2.46765	2.46243	2.45726	0.993
0.007	2.45726	2.45216	2.44713	2.44215	2.43724	2.43238	2.42758	2.42283	2.41814	2.41350	2.40891	0.992
0.008	2.40891	2.40437	2.39989	2.39545	2.39106	2.38671	2.38240	2.37814	2.37392	2.36975	2.36562	0.991
0.009	2.36562	2.36152	2.35747	2.35345	2.34947	2.34553	2.34162	2.33775	2.33392	2.33012	2.32635	0.990
0.010	2.32635	2.32261	2.31891	2.31524	2.31160	2.30798	2.30440	2.30085	2.29733	2.29383	2.29037	0.989
0.011	2.29037	2.28693	2.28352	2.28013	2.27677	2.27343	2.27013	2.26684	2.26358	2.26034	2.25713	0.988
0.012	2.25713	2.25394	2.25077	2.24763	2.24450	2.24140	2.23832	2.23526	2.23223	2.22921	2.22621	0.987
0.013	2.22621	2.22323	2.22028	2.21734	2.21442	2.21152	2.20864	2.20577	2.20293	2.20010	2.19729	0.986
0.014	2.19729	2.19449	2.19172	2.18896	2.18621	2.18349	2.18078	2.17808	2.17540	2.17274	2.17009	0.985
0.015	2.17009	2.16746	2.16484	2.16224	2.15965	2.15707	2.15451	2.15197	2.14943	2.14692	2.14441	0.984
0.016	2.14441	2.14192	2.13944	2.13698	2.13452	2.13208	2.12966	2.12724	2.12484	2.12245	2.12007	0.983
0.017	2.12007	2.11771	2.11535	2.11301	2.11068	2.10836	2.10605	2.10375	2.10147	2.09919	2.09693	0.982
0.018	2.09693	2.09467	2.09243	2.09020	2.08798	2.08576	2.08356	2.08137	2.07919	2.07702	2.07485	0.981
0.019	2.07485	2.07270	2.07056	2.06843	2.06630	2.06419	2.06208	2.05998	2.05790	2.05582	2.05375	0.980
0.020	2.05375	2.05169	2.04964	2.04759	2.04556	2.04353	2.04151	2.03950	2.03750	2.03551	2.03352	0.979
0.021	2.03352	2.03154	2.02957	2.02761	2.02566	2.02371	2.02177	2.01984	2.01792	2.01600	2.01409	0.978
0.022	2.01409	2.01219	2.01029	2.00841	2.00653	2.00465	2.00279	2.00093	1.99908	1.99723	1.99539	0.977
0.023	1.99539	1.99356	1.99174	1.98992	1.98811	1.98630	1.98450	1.98271	1.98092	1.97914	1.97737	0.976
0.024	1.97737	1.97560	1.97384	1.97208	1.97033	1.96859	1.96685	1.96512	1.96340	1.96168	1.95996	0.975
	0.0010	0.0009	0.0008	0.0007	0.0006	0.0005	0.0004	0.0003	0.0002	0.0001	0.0000	$P(x)$

For $Q(x) > 0.0007$, linear interpolation yields an error of one unit in the third decimal place; five-point interpolation is necessary to obtain full accuracy.

$Q(x)$	x	$Q(x)$	x	$Q(x)$	x	$Q(x)$	x
(-4)1.0	3.71902	(-9)1.0	5.99781	(-14)1.0	7.65063	(-19)1.0	9.01327
(-5)1.0	4.26489	(-10)1.0	6.36134	(-15)1.0	7.94135	(-20)1.0	9.26234
(-6)1.0	4.75342	(-11)1.0	6.70602	(-16)1.0	8.22208	(-21)1.0	9.50502
(-7)1.0	5.19934	(-12)1.0	7.03448	(-17)1.0	8.49379	(-22)1.0	9.74179
(-8)1.0	5.61200	(-13)1.0	7.34880	(-18)1.0	8.75729	(-23)1.0	9.97305

$$P(x) = 1 - Q(x) = \int_{-\infty}^x Z(t) dt$$

Compiled from T. L. Kelley, The Kelley Statistical Tables. Harvard Univ. Press, Cambridge, Mass., 1948 (with permission) for $Q(x) > (-9)1.$