

Standard Normal Table (negative z values, cumulative probabilities)

z	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
-3.0	0.0013	0.0013	0.0013	0.0012	0.0012	0.0011	0.0011	0.0011	0.0010	0.0010
-2.9	0.0019	0.0018	0.0018	0.0017	0.0016	0.0016	0.0015	0.0015	0.0014	0.0014
-2.8	0.0026	0.0025	0.0024	0.0023	0.0023	0.0022	0.0021	0.0021	0.0020	0.0019
-2.7	0.0035	0.0034	0.0033	0.0032	0.0031	0.0030	0.0029	0.0028	0.0027	0.0026
-2.6	0.0047	0.0045	0.0044	0.0043	0.0041	0.0040	0.0039	0.0038	0.0037	0.0036
-2.5	0.0062	0.0060	0.0059	0.0057	0.0055	0.0054	0.0052	0.0051	0.0049	0.0048
-2.4	0.0082	0.0080	0.0078	0.0075	0.0073	0.0071	0.0069	0.0068	0.0066	0.0064
-2.3	0.0107	0.0104	0.0102	0.0099	0.0096	0.0094	0.0091	0.0089	0.0087	0.0084
-2.2	0.0139	0.0136	0.0132	0.0129	0.0125	0.0122	0.0119	0.0116	0.0113	0.0110
-2.1	0.0179	0.0174	0.0170	0.0166	0.0162	0.0158	0.0154	0.0150	0.0146	0.0143
-2.0	0.0228	0.0222	0.0217	0.0212	0.0207	0.0202	0.0197	0.0192	0.0188	0.0183
-1.9	0.0287	0.0281	0.0274	0.0268	0.0262	0.0256	0.0250	0.0244	0.0239	0.0233
-1.8	0.0359	0.0351	0.0344	0.0336	0.0329	0.0322	0.0314	0.0307	0.0301	0.0294
-1.7	0.0446	0.0436	0.0427	0.0418	0.0409	0.0401	0.0392	0.0384	0.0375	0.0367
-1.6	0.0548	0.0537	0.0526	0.0516	0.0505	0.0495	0.0485	0.0475	0.0465	0.0455
-1.5	0.0668	0.0655	0.0643	0.0630	0.0618	0.0606	0.0594	0.0582	0.0571	0.0559
-1.4	0.0808	0.0793	0.0778	0.0764	0.0749	0.0735	0.0721	0.0708	0.0694	0.0681
-1.3	0.0968	0.0951	0.0934	0.0918	0.0901	0.0885	0.0869	0.0853	0.0838	0.0823
-1.2	0.1151	0.1131	0.1112	0.1093	0.1075	0.1056	0.1038	0.1020	0.1003	0.0985
-1.1	0.1357	0.1335	0.1314	0.1292	0.1271	0.1251	0.1230	0.1210	0.1190	0.1170
-1.0	0.1587	0.1562	0.1539	0.1515	0.1492	0.1469	0.1446	0.1423	0.1401	0.1379
-0.9	0.1841	0.1814	0.1788	0.1762	0.1736	0.1711	0.1685	0.1660	0.1635	0.1611
-0.8	0.2119	0.2090	0.2061	0.2033	0.2005	0.1977	0.1949	0.1922	0.1894	0.1867
-0.7	0.2420	0.2389	0.2358	0.2327	0.2296	0.2266	0.2236	0.2206	0.2177	0.2148
-0.6	0.2743	0.2709	0.2676	0.2643	0.2611	0.2578	0.2546	0.2514	0.2483	0.2451
-0.5	0.3085	0.3050	0.3015	0.2981	0.2946	0.2912	0.2877	0.2843	0.2810	0.2776
-0.4	0.3446	0.3409	0.3372	0.3336	0.3300	0.3264	0.3228	0.3192	0.3156	0.3121
-0.3	0.3821	0.3783	0.3745	0.3707	0.3669	0.3632	0.3594	0.3557	0.3520	0.3483
-0.2	0.4207	0.4168	0.4129	0.4090	0.4052	0.4013	0.3974	0.3936	0.3897	0.3859
-0.1	0.4602	0.4562	0.4522	0.4483	0.4443	0.4404	0.4364	0.4325	0.4286	0.4247
-0.0	0.5000	0.4960	0.4920	0.4880	0.4840	0.4801	0.4761	0.4721	0.4681	0.4641

Standard Normal Table (positive z values, cumulative probabilities)

z	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.0	0.5000	0.5040	0.5080	0.5120	0.5160	0.5199	0.5239	0.5279	0.5319	0.5359
0.1	0.5398	0.5438	0.5478	0.5517	0.5557	0.5596	0.5636	0.5675	0.5714	0.5753
0.2	0.5793	0.5832	0.5871	0.5910	0.5948	0.5987	0.6026	0.6064	0.6103	0.6141
0.3	0.6179	0.6217	0.6255	0.6293	0.6331	0.6368	0.6406	0.6443	0.6480	0.6517
0.4	0.6554	0.6591	0.6628	0.6664	0.6700	0.6736	0.6772	0.6808	0.6844	0.6879
0.5	0.6915	0.6950	0.6985	0.7019	0.7054	0.7088	0.7123	0.7157	0.7190	0.7224
0.6	0.7257	0.7291	0.7324	0.7357	0.7389	0.7422	0.7454	0.7486	0.7517	0.7549
0.7	0.7580	0.7611	0.7642	0.7673	0.7704	0.7734	0.7764	0.7794	0.7823	0.7852
0.8	0.7881	0.7910	0.7939	0.7967	0.7995	0.8023	0.8051	0.8078	0.8106	0.8133
0.9	0.8159	0.8186	0.8212	0.8238	0.8264	0.8289	0.8315	0.8340	0.8365	0.8389
1.0	0.8413	0.8438	0.8461	0.8485	0.8508	0.8531	0.8554	0.8577	0.8599	0.8621
1.1	0.8643	0.8665	0.8686	0.8708	0.8729	0.8749	0.8770	0.8790	0.8810	0.8830
1.2	0.8849	0.8869	0.8888	0.8907	0.8925	0.8944	0.8962	0.8980	0.8997	0.9015
1.3	0.9032	0.9049	0.9066	0.9082	0.9099	0.9115	0.9131	0.9147	0.9162	0.9177
1.4	0.9192	0.9207	0.9222	0.9236	0.9251	0.9265	0.9279	0.9292	0.9306	0.9319
1.5	0.9332	0.9345	0.9357	0.9370	0.9382	0.9394	0.9406	0.9418	0.9429	0.9441
1.6	0.9452	0.9463	0.9474	0.9484	0.9495	0.9505	0.9515	0.9525	0.9535	0.9545
1.7	0.9554	0.9564	0.9573	0.9582	0.9591	0.9599	0.9608	0.9616	0.9625	0.9633
1.8	0.9641	0.9649	0.9656	0.9664	0.9671	0.9678	0.9686	0.9693	0.9699	0.9706
1.9	0.9713	0.9719	0.9726	0.9732	0.9738	0.9744	0.9750	0.9756	0.9761	0.9767
2.0	0.9772	0.9778	0.9783	0.9788	0.9793	0.9798	0.9803	0.9808	0.9812	0.9817
2.1	0.9821	0.9826	0.9830	0.9834	0.9838	0.9842	0.9846	0.9850	0.9854	0.9857
2.2	0.9861	0.9864	0.9868	0.9871	0.9875	0.9878	0.9881	0.9884	0.9887	0.9890
2.3	0.9893	0.9896	0.9898	0.9901	0.9904	0.9906	0.9909	0.9911	0.9913	0.9916
2.4	0.9918	0.9920	0.9922	0.9925	0.9927	0.9929	0.9931	0.9932	0.9934	0.9936
2.5	0.9938	0.9940	0.9941	0.9943	0.9945	0.9946	0.9948	0.9949	0.9951	0.9952
2.6	0.9953	0.9955	0.9956	0.9957	0.9959	0.9960	0.9961	0.9962	0.9963	0.9964
2.7	0.9965	0.9966	0.9967	0.9968	0.9969	0.9970	0.9971	0.9972	0.9973	0.9974
2.8	0.9974	0.9975	0.9976	0.9977	0.9977	0.9978	0.9979	0.9979	0.9980	0.9981
2.9	0.9981	0.9982	0.9982	0.9983	0.9984	0.9984	0.9985	0.9985	0.9986	0.9986
3.0	0.9987	0.9987	0.9987	0.9988	0.9988	0.9989	0.9989	0.9989	0.9990	0.9990

t Table (df 1 to 30, tail probabilities)

df/area	0.1000	0.0500	0.0250	0.0100	0.0050	0.0025	0.0010	0.0005
1	3.078	6.314	12.706	31.821	63.656	127.321	318.289	636.578
2	1.886	2.920	4.303	6.965	9.925	14.089	22.328	31.600
3	1.638	2.353	3.182	4.541	5.841	7.453	10.214	12.924
4	1.533	2.132	2.776	3.747	4.604	5.598	7.173	8.610
5	1.476	2.015	2.571	3.365	4.032	4.773	5.894	6.869
6	1.440	1.943	2.447	3.143	3.707	4.317	5.208	5.959
7	1.415	1.895	2.365	2.998	3.499	4.029	4.785	5.408
8	1.397	1.860	2.306	2.896	3.355	3.833	4.501	5.041
9	1.383	1.833	2.262	2.821	3.250	3.690	4.297	4.781
10	1.372	1.812	2.228	2.764	3.169	3.581	4.144	4.587
11	1.363	1.796	2.201	2.718	3.106	3.497	4.025	4.437
12	1.356	1.782	2.179	2.681	3.055	3.428	3.930	4.318
13	1.350	1.771	2.160	2.650	3.012	3.372	3.852	4.221
14	1.345	1.761	2.145	2.624	2.977	3.326	3.787	4.140
15	1.341	1.753	2.131	2.602	2.947	3.286	3.733	4.073
16	1.337	1.746	2.120	2.583	2.921	3.252	3.686	4.015
17	1.333	1.740	2.110	2.567	2.898	3.222	3.646	3.965
18	1.330	1.734	2.101	2.552	2.878	3.197	3.610	3.922
19	1.328	1.729	2.093	2.539	2.861	3.174	3.579	3.883
20	1.325	1.725	2.086	2.528	2.845	3.153	3.552	3.850
21	1.323	1.721	2.080	2.518	2.831	3.135	3.527	3.819
22	1.321	1.717	2.074	2.508	2.819	3.119	3.505	3.792
23	1.319	1.714	2.069	2.500	2.807	3.104	3.485	3.768
24	1.318	1.711	2.064	2.492	2.797	3.091	3.467	3.745
25	1.316	1.708	2.060	2.485	2.787	3.078	3.450	3.725
26	1.315	1.706	2.056	2.479	2.779	3.067	3.435	3.707
27	1.314	1.703	2.052	2.473	2.771	3.057	3.421	3.689
28	1.313	1.701	2.048	2.467	2.763	3.047	3.408	3.674
29	1.311	1.699	2.045	2.462	2.756	3.038	3.396	3.660
30	1.310	1.697	2.042	2.457	2.750	3.030	3.385	3.646

t Table (df 31 to 66, tail probabilities)

df/area	0.1000	0.0500	0.0250	0.0100	0.0050	0.0025	0.0010	0.0005
31	1.309	1.696	2.040	2.453	2.744	3.022	3.375	3.633
32	1.309	1.694	2.037	2.449	2.738	3.015	3.365	3.622
33	1.308	1.692	2.035	2.445	2.733	3.008	3.356	3.611
34	1.307	1.691	2.032	2.441	2.728	3.002	3.348	3.601
35	1.306	1.690	2.030	2.438	2.724	2.996	3.340	3.591
36	1.306	1.688	2.028	2.434	2.719	2.990	3.333	3.582
37	1.305	1.687	2.026	2.431	2.715	2.985	3.326	3.574
38	1.304	1.686	2.024	2.429	2.712	2.980	3.319	3.566
39	1.304	1.685	2.023	2.426	2.708	2.976	3.313	3.558
40	1.303	1.684	2.021	2.423	2.704	2.971	3.307	3.551
41	1.303	1.683	2.020	2.421	2.701	2.967	3.301	3.544
42	1.302	1.682	2.018	2.418	2.698	2.963	3.296	3.538
43	1.302	1.681	2.017	2.416	2.695	2.959	3.291	3.532
44	1.301	1.680	2.015	2.414	2.692	2.956	3.286	3.526
45	1.301	1.679	2.014	2.412	2.690	2.952	3.281	3.520
46	1.300	1.679	2.013	2.410	2.687	2.949	3.277	3.515
47	1.300	1.678	2.012	2.408	2.685	2.946	3.273	3.510
48	1.299	1.677	2.011	2.407	2.682	2.943	3.269	3.505
49	1.299	1.677	2.010	2.405	2.680	2.940	3.265	3.500
50	1.299	1.676	2.009	2.403	2.678	2.937	3.261	3.496
51	1.298	1.675	2.008	2.402	2.676	2.934	3.258	3.492
52	1.298	1.675	2.007	2.400	2.674	2.932	3.255	3.488
53	1.298	1.674	2.006	2.399	2.672	2.929	3.251	3.484
54	1.297	1.674	2.005	2.397	2.670	2.927	3.248	3.480
55	1.297	1.673	2.004	2.396	2.668	2.925	3.245	3.476
56	1.297	1.673	2.003	2.395	2.667	2.923	3.242	3.473
57	1.297	1.672	2.002	2.394	2.665	2.920	3.239	3.469
58	1.296	1.672	2.002	2.392	2.663	2.918	3.237	3.466
59	1.296	1.671	2.001	2.391	2.662	2.916	3.234	3.463
60	1.296	1.671	2.000	2.390	2.660	2.915	3.232	3.460
61	1.296	1.670	2.000	2.389	2.659	2.913	3.229	3.457
62	1.295	1.670	1.999	2.388	2.657	2.911	3.227	3.454
63	1.295	1.669	1.998	2.387	2.656	2.909	3.225	3.452
64	1.295	1.669	1.998	2.386	2.655	2.908	3.223	3.449
65	1.295	1.669	1.997	2.385	2.654	2.906	3.220	3.447
66	1.295	1.668	1.997	2.384	2.652	2.904	3.218	3.444

t Table (df 67 to 100, tail probabilities)

df/area	0.1000	0.0500	0.0250	0.0100	0.0050	0.0025	0.0010	0.0005
67	1.294	1.668	1.996	2.383	2.651	2.903	3.216	3.442
68	1.294	1.668	1.995	2.382	2.650	2.902	3.214	3.439
69	1.294	1.667	1.995	2.382	2.649	2.900	3.213	3.437
70	1.294	1.667	1.994	2.381	2.648	2.899	3.211	3.435
71	1.294	1.667	1.994	2.380	2.647	2.897	3.209	3.433
72	1.293	1.666	1.993	2.379	2.646	2.896	3.207	3.431
73	1.293	1.666	1.993	2.379	2.645	2.895	3.206	3.429
74	1.293	1.666	1.993	2.378	2.644	2.894	3.204	3.427
75	1.293	1.665	1.992	2.377	2.643	2.892	3.202	3.425
76	1.293	1.665	1.992	2.376	2.642	2.891	3.201	3.423
77	1.293	1.665	1.991	2.376	2.641	2.890	3.199	3.421
78	1.292	1.665	1.991	2.375	2.640	2.889	3.198	3.420
79	1.292	1.664	1.990	2.374	2.639	2.888	3.197	3.418
80	1.292	1.664	1.990	2.374	2.639	2.887	3.195	3.416
81	1.292	1.664	1.990	2.373	2.638	2.886	3.194	3.415
82	1.292	1.664	1.989	2.373	2.637	2.885	3.193	3.413
83	1.292	1.663	1.989	2.372	2.636	2.884	3.191	3.412
84	1.292	1.663	1.989	2.372	2.636	2.883	3.190	3.410
85	1.292	1.663	1.988	2.371	2.635	2.882	3.189	3.409
86	1.291	1.663	1.988	2.370	2.634	2.881	3.188	3.407
87	1.291	1.663	1.988	2.370	2.634	2.880	3.187	3.406
88	1.291	1.662	1.987	2.369	2.633	2.880	3.185	3.405
89	1.291	1.662	1.987	2.369	2.632	2.879	3.184	3.403
90	1.291	1.662	1.987	2.368	2.632	2.878	3.183	3.402
91	1.291	1.662	1.986	2.368	2.631	2.877	3.182	3.401
92	1.291	1.662	1.986	2.368	2.630	2.876	3.181	3.399
93	1.291	1.661	1.986	2.367	2.630	2.876	3.180	3.398
94	1.291	1.661	1.986	2.367	2.629	2.875	3.179	3.397
95	1.291	1.661	1.985	2.366	2.629	2.874	3.178	3.396
96	1.290	1.661	1.985	2.366	2.628	2.873	3.177	3.395
97	1.290	1.661	1.985	2.365	2.627	2.873	3.176	3.394
98	1.290	1.661	1.984	2.365	2.627	2.872	3.176	3.393
99	1.290	1.660	1.984	2.365	2.626	2.871	3.175	3.391
100	1.290	1.660	1.984	2.364	2.626	2.871	3.174	3.390
Infin	1.282	1.645	1.960	2.326	2.576	2.807	3.090	3.290