

Tabelle 1: Verteilungsfunktion der Standardnormalverteilung

$$\Phi(-u) = 1 - \Phi(u)$$

Ablesebeispiel:  $\Phi(-1,91) = 1 - \Phi(1,91) = 1 - 0,9719 = 0,0281$

u	0,00	0,01	0,02	0,03	0,04	0,05	0,06	0,07	0,08	0,09	u
0,0	0,5000	0,5040	0,5080	0,5120	0,5160	0,5199	0,5239	0,5279	0,5319	0,5359	0,0
0,1	0,5398	0,5438	0,5478	0,5517	0,5557	0,5596	0,5636	0,5675	0,5714	0,5753	0,1
0,2	0,5793	0,5832	0,5871	0,5910	0,5948	0,5987	0,6026	0,6064	0,6103	0,6141	0,2
0,3	0,6179	0,6217	0,6255	0,6293	0,6331	0,6368	0,6406	0,6443	0,6480	0,6517	0,3
0,4	0,6554	0,6591	0,6628	0,6664	0,6700	0,6736	0,6772	0,6808	0,6844	0,6879	0,4
0,5	0,6915	0,6950	0,6985	0,7019	0,7054	0,7088	0,7123	0,7157	0,7190	0,7224	0,5
0,6	0,7257	0,7291	0,7324	0,7357	0,7389	0,7422	0,7454	0,7486	0,7517	0,7549	0,6
0,7	0,7580	0,7611	0,7642	0,7673	0,7704	0,7734	0,7764	0,7794	0,7823	0,7852	0,7
0,8	0,7881	0,7910	0,7939	0,7967	0,7995	0,8023	0,8051	0,8079	0,8106	0,8133	0,8
0,9	0,8159	0,8186	0,8212	0,8238	0,8264	0,8289	0,8315	0,8340	0,8365	0,8389	0,9
1,0	0,8413	0,8438	0,8461	0,8485	0,8508	0,8531	0,8554	0,8577	0,8599	0,8621	1,0
1,1	0,8643	0,8665	0,8686	0,8708	0,8729	0,8749	0,8770	0,8790	0,8810	0,8830	1,1
1,2	0,8849	0,8869	0,8888	0,8907	0,8925	0,8944	0,8962	0,8980	0,8997	0,9015	1,2
1,3	0,9032	0,9049	0,9066	0,9082	0,9099	0,9115	0,9131	0,9147	0,9162	0,9177	1,3
1,4	0,9192	0,9207	0,9222	0,9236	0,9251	0,9265	0,9279	0,9292	0,9306	0,9319	1,4
1,5	0,9332	0,9345	0,9357	0,9370	0,9382	0,9394	0,9406	0,9418	0,9429	0,9441	1,5
1,6	0,9452	0,9463	0,9474	0,9484	0,9495	0,9505	0,9515	0,9525	0,9535	0,9545	1,6
1,7	0,9554	0,9564	0,9573	0,9582	0,9591	0,9599	0,9608	0,9616	0,9625	0,9633	1,7
1,8	0,9641	0,9649	0,9656	0,9664	0,9671	0,9678	0,9686	0,9693	0,9699	0,9706	1,8
1,9	0,9713	0,9719	0,9726	0,9732	0,9738	0,9744	0,9750	0,9756	0,9761	0,9767	1,9
2,0	0,9773	0,9778	0,9783	0,9788	0,9793	0,9798	0,9803	0,9808	0,9812	0,9817	2,0
2,1	0,9821	0,9826	0,9830	0,9834	0,9838	0,9842	0,9846	0,9850	0,9854	0,9857	2,1
2,2	0,9861	0,9864	0,9868	0,9871	0,9875	0,9878	0,9881	0,9884	0,9887	0,9890	2,2
2,3	0,9893	0,9896	0,9898	0,9901	0,9904	0,9906	0,9909	0,9911	0,9913	0,9916	2,3
2,4	0,9918	0,9920	0,9922	0,9925	0,9927	0,9929	0,9931	0,9932	0,9934	0,9936	2,4
2,5	0,9938	0,9940	0,9941	0,9943	0,9945	0,9946	0,9948	0,9949	0,9951	0,9952	2,5
2,6	0,9953	0,9955	0,9956	0,9957	0,9959	0,9960	0,9961	0,9962	0,9963	0,9964	2,6
2,7	0,9965	0,9966	0,9967	0,9968	0,9969	0,9970	0,9971	0,9972	0,9973	0,9974	2,7
2,8	0,9974	0,9975	0,9976	0,9977	0,9977	0,9978	0,9979	0,9979	0,9980	0,9981	2,8
2,9	0,9981	0,9982	0,9983	0,9983	0,9984	0,9984	0,9985	0,9985	0,9986	0,9986	2,9

Tabelle 1a: Ausgewählte Quantile der Standardnormalverteilung

p	0,8	0,9	0,95	0,975	0,98	0,99	0,995
$u_p$	0,84162	1,28155	1,6449	1,9600	2,0538	2,3264	2,5758

Tabelle 2: Quantile der Student-Verteilung  $t_{n;p}$ 

n	p								n
	80%	90%	95%	97,5%	99%	99,5%	99,9%	99,95%	
1	1,3764	3,0777	6,3138	12,706	31,821	63,657	318,31	636,62	1
2	1,0607	1,8856	2,9200	4,3027	6,9646	9,9248	22,327	31,599	2
3	0,9785	1,6377	2,3534	3,1825	4,5407	5,8409	10,215	12,924	3
4	0,9410	1,5332	2,1319	2,7765	3,7470	4,6041	7,1732	8,6103	4
5	0,9195	1,4759	2,0151	2,5706	3,3649	4,0321	5,8934	6,8688	5
6	0,9057	1,4398	1,9432	2,4469	3,1427	3,7074	5,2076	5,9588	6
7	0,8960	1,4149	1,8946	2,3646	2,9980	3,4995	4,7853	5,4079	7
8	0,8889	1,3968	1,8596	2,3060	2,8965	3,3554	4,5008	5,0413	8
9	0,8830	1,3830	1,8331	2,2622	2,8214	3,2498	4,2968	4,7809	9
10	0,8791	1,3722	1,8125	2,2281	2,7638	3,1693	4,1437	4,5869	10
11	0,8755	1,3634	1,7959	2,2010	2,7181	3,1058	4,0247	4,4370	11
12	0,8726	1,3562	1,7823	2,1788	2,6810	3,0545	3,9296	4,3178	12
13	0,8702	1,3502	1,7709	2,1604	2,6503	3,0123	3,8520	4,2208	13
14	0,8681	1,3450	1,7613	2,1448	2,6245	2,9768	3,7874	4,1405	14
15	0,8662	1,3406	1,7531	2,1315	2,6025	2,9467	3,7328	4,0728	15
16	0,8647	1,3368	1,7459	2,1199	2,5835	2,9208	3,6862	4,0150	16
17	0,8633	1,3334	1,7396	2,1098	2,5669	2,8982	3,6458	3,9651	17
18	0,8621	1,3304	1,7341	2,1009	2,5524	2,8784	3,6105	3,9217	18
19	0,8610	1,3277	1,7291	2,0930	2,5395	2,8609	3,5794	3,8834	19
20	0,8600	1,3253	1,7247	2,0860	2,5280	2,8453	3,5518	3,8495	20
21	0,8591	1,3232	1,7207	2,0796	2,5177	2,8314	3,5272	3,8193	21
22	0,8583	1,3212	1,7171	2,0739	2,5083	2,8188	3,5050	3,7921	22
23	0,8575	1,3195	1,7139	2,0687	2,4999	2,8073	3,4850	3,7676	23
24	0,8569	1,3178	1,7109	2,0639	2,4922	2,7969	3,4668	3,7454	24
25	0,8562	1,3164	1,7081	2,0595	2,4851	2,7874	3,4502	3,7251	25
26	0,8557	1,3150	1,7056	2,0555	2,4786	2,7787	3,4350	3,7066	26
27	0,8551	1,3137	1,7033	2,0518	2,4727	2,7707	3,4210	3,6896	27
28	0,8547	1,3125	1,7011	2,0484	2,4671	2,7633	3,4082	3,6739	28
29	0,8542	1,3114	1,6991	2,0452	2,4620	2,7564	3,3962	3,6594	29
30	0,8538	1,3104	1,6973	2,0423	2,4573	2,7500	3,3852	3,6460	30
50	0,8489	1,2987	1,6759	2,0086	2,4033	2,6778	3,2614	3,4960	50
100	0,8452	1,2901	1,6602	1,9840	2,3642	2,6259	3,1737	3,3905	100
150	0,8440	1,2872	1,6551	1,9759	2,3515	2,6090	3,1455	3,3566	150
200	0,8434	1,2858	1,6525	1,9719	2,3451	2,6006	3,1315	3,3398	200
500	0,8423	1,2833	1,6479	1,9647	2,3338	2,5857	3,1066	3,3101	500
$\infty$	0,8416	1,2816	1,6449	1,9600	2,3264	2,5758	3,0902	3,2905	$\infty$

Tabelle 3: Quantile der Chi-Quadrat-Verteilung  $\chi_{n;p}^2$ 

n	p						n
	0,5%	1%	2,5%	5%	10%	50%	
1	0,0000	0,0002	0,0010	0,0039	0,0158	0,4549	1
2	0,0100	0,0201	0,0506	0,1026	0,2107	1,3863	2
3	0,0717	0,1148	0,2158	0,3518	0,5844	2,3660	3
4	0,2070	0,2971	0,4844	0,7107	1,0636	3,3567	4
5	0,4117	0,5543	0,8312	1,1455	1,6103	4,3515	5
6	0,6757	0,8721	1,2373	1,6354	2,2041	5,3481	6
7	0,9893	1,2390	1,6899	2,1674	2,8331	6,3458	7
8	1,3444	1,2390	2,1797	2,7326	3,4895	7,3441	8
9	1,7349	1,2390	2,7004	3,3251	4,1682	8,3428	9
10	2,1559	2,5582	3,2470	3,3251	4,8652	9,3418	10
11	2,6032	3,0535	3,8158	4,5748	5,5778	10,3410	11
12	3,0738	3,5706	4,4038	5,2260	6,3038	11,3403	12
13	3,5650	4,1069	5,0088	5,8919	7,0415	12,3398	13
14	4,0747	4,6604	5,6287	6,5706	7,7895	13,3393	14
15	4,6009	5,2294	6,2621	7,2609	8,5468	14,3389	15
16	5,1422	5,8122	6,9077	7,9617	9,3122	15,3385	16
17	5,6972	6,4078	7,5642	8,6718	10,0852	16,3382	17
18	5,6972	7,0149	8,2308	9,3905	10,8649	17,3379	18
19	6,8440	7,6327	8,9065	10,1170	11,6509	18,3377	19
20	7,4338	8,2604	9,5908	10,8508	12,4426	19,3374	20
21	8,0337	8,8972	10,2829	11,5913	13,2396	20,3372	21
22	8,6427	9,5425	10,9823	12,3380	14,0415	21,3370	22
23	9,2604	10,1957	11,6886	13,0905	14,8480	22,3369	23
24	9,8862	10,8564	12,4012	13,8484	15,6587	23,3367	24
25	10,5197	11,5240	13,1197	14,6114	16,4734	24,3366	25
26	11,1602	12,1982	13,8439	15,3792	17,2919	25,3365	26
27	11,8076	12,8785	14,5734	16,1514	18,1139	26,3363	27
28	12,4613	13,5647	15,3079	16,9279	18,9392	27,3362	28
29	13,1212	14,2565	16,0471	17,7084	19,7677	28,3361	29
30	13,7867	14,9535	16,7908	18,4927	20,5992	29,3360	30
40	20,7065	22,1643	24,4330	26,5093	29,0505	39,3353	40
50	27,9908	29,7067	32,3574	34,7643	37,6887	49,3349	50
60	35,5345	37,4849	40,4818	43,1880	46,4589	59,3347	60
70	43,2752	45,4417	48,7576	51,7393	55,3289	69,3345	70
80	51,1719	53,5401	57,1532	60,3915	64,2778	79,3343	80
90	59,1963	61,7541	65,6466	69,1260	73,2911	89,3342	90
100	67,3276	70,0649	74,2219	77,9295	82,3581	99,3341	100

Tabelle 3: Quantile der Chi-Quadrat-Verteilung  $\chi_{n,p}^2$  (Fortsetzung)

n	p						n
	50%	90%	95%	97,5%	99%	99,5%	
1	0,4549	2,7055	3,8415	5,0239	6,6349	7,8794	1
2	1,3863	4,6052	5,9915	7,3778	9,2103	10,5966	2
3	2,3660	6,2514	7,8147	9,3484	11,3449	12,8382	3
4	3,3567	7,7794	9,4877	11,1433	13,2767	14,8603	4
5	4,3515	9,2364	11,0705	12,8325	15,0863	16,7496	5
6	5,3481	10,6446	12,5916	14,4494	16,8119	18,5476	6
7	6,3458	12,0170	14,0671	16,0128	18,4753	20,2777	7
8	7,3441	13,3616	15,5073	17,5346	20,0902	21,9550	8
9	8,3428	14,6837	16,9190	19,0228	21,6660	23,5894	9
10	9,3418	15,9872	18,3070	20,4832	23,2093	25,1882	10
11	10,3410	17,2750	19,6751	21,9201	24,7250	26,7569	11
12	11,3403	18,5494	21,0261	23,3367	26,2170	28,2995	12
13	12,3398	19,8119	22,3620	24,7356	27,6883	29,8195	13
14	13,3393	21,0641	23,6848	26,1190	29,1412	31,3194	14
15	14,3389	22,3071	24,9958	27,4884	30,5779	32,8013	15
16	15,3385	23,5418	26,2962	28,8454	31,9999	34,2672	16
17	16,3382	24,7690	27,5871	30,1910	33,4087	35,7185	17
18	17,3379	25,9894	28,8693	31,5264	34,8053	37,1565	18
19	18,3377	27,2036	30,1435	32,8523	36,1909	38,5823	19
20	19,3374	28,4120	31,4104	34,1696	37,5662	39,9969	20
21	20,3372	29,6151	32,6706	35,4789	38,9322	41,4011	21
22	21,3370	30,8133	33,9244	36,7807	40,2894	42,7957	22
23	22,3369	32,0069	35,1725	38,0756	41,6384	44,1813	23
24	23,3367	33,1962	36,4150	39,3641	42,9798	45,5585	24
25	24,3366	34,3816	37,6525	40,6465	44,3141	46,9279	25
26	25,3365	35,5632	38,8851	41,9232	45,6417	48,2899	26
27	26,3363	36,7412	40,1133	43,1945	46,9629	49,6449	27
28	27,3362	37,9159	41,3371	44,4608	48,2782	50,9934	28
29	28,3361	39,0875	42,5570	45,7223	49,5879	52,3356	29
30	29,3360	40,2560	43,7730	46,9792	50,8922	53,6720	30
40	39,3353	51,8051	55,7585	59,3417	63,6907	66,7660	40
50	49,3349	63,1671	67,5048	71,4202	76,1539	79,4900	50
60	59,3347	74,3970	79,0819	83,2977	88,3794	91,9517	60
70	69,3345	85,5270	90,5312	95,0232	100,425	104,215	70
80	79,3343	96,5782	101,879	106,629	112,329	116,321	80
90	89,3342	107,565	113,145	118,136	124,116	128,299	90
100	99,3341	118,498	124,342	129,561	135,807	140,169	100