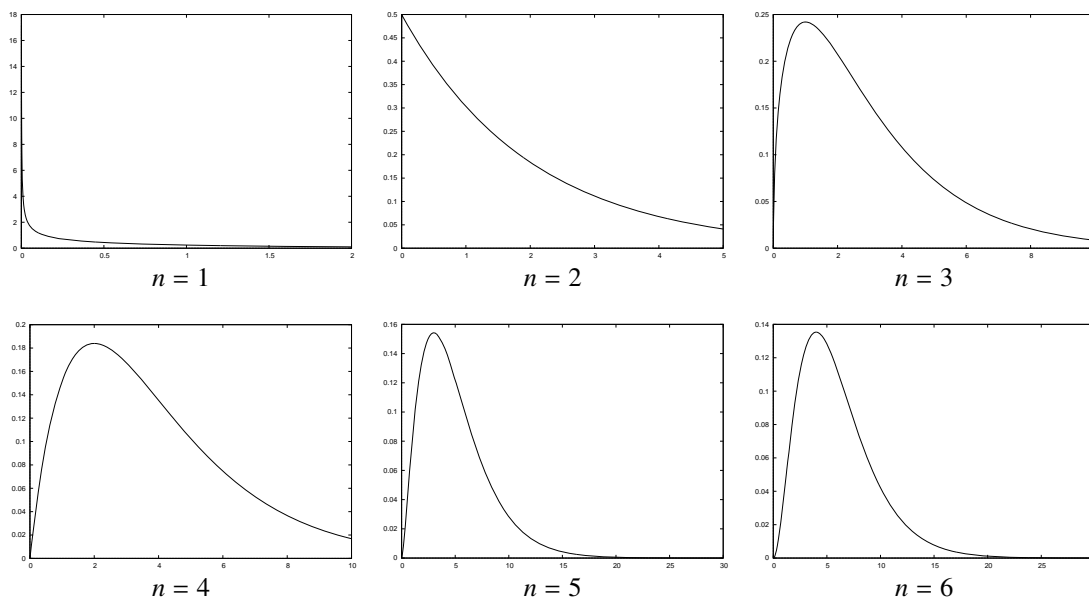


$$f_n(z) = \frac{1}{2\Gamma(n/2)} \left(\frac{z}{2}\right)^{\frac{n}{2}-1} e^{-\frac{z}{2}}$$



X_1, X_2, \dots, X_n を $N(0, 1)$ に従う独立な確率変数列として、 $Y_n := \sum_{k=1}^n X_k^2$ とおくと

$$P(a \leq Y_n \leq b) = \int_a^b f_n(z) dz$$

で与えられる。

$$\int_x^\infty f_n(z) dz = \alpha$$

となる点 x を自由度 n の χ^2 分布の 100α パーセント点と呼ぶ。

例えば、

- 自由度 2 の χ^2 分布の 99.5% 点は 0.0100 :

$$\int_{0.0100}^\infty f_2(z) dz = 0.995$$

- 自由度 20 の χ^2 分布の 50% 点は 19.3374 :

$$\int_{19.3374}^\infty f_{20}(z) dz = 0.500$$

である。

Maxima:

```
load(distrib);
```

```
quantile_chi2(1 -  $\alpha$ , n);
```

	0.995	0.990	0.975	0.950	0.900	0.800	0.700	0.600	0.500
1	0.0000	0.0002	0.0010	0.0039	0.0158	0.0642	0.1485	0.2750	0.4549
2	0.0100	0.0201	0.0506	0.1026	0.2107	0.4463	0.7133	1.0217	1.3863
3	0.0717	0.1148	0.2158	0.3518	0.5844	1.0052	1.4237	1.8692	2.3660
4	0.2070	0.2971	0.4844	0.7107	1.0636	1.6488	2.1947	2.7528	3.3567
5	0.4117	0.5543	0.8312	1.1455	1.6103	2.3425	2.9999	3.6555	4.3515
6	0.6757	0.8721	1.2373	1.6354	2.2041	3.0701	3.8276	4.5702	5.3481
7	0.9893	1.2390	1.6899	2.1673	2.8331	3.8223	4.6713	5.4932	6.3458
8	1.3444	1.6465	2.1797	2.7326	3.4895	4.5936	5.5274	6.4226	7.3441
9	1.7349	2.0879	2.7004	3.3251	4.1682	5.3801	6.3933	7.3570	8.3428
10	2.1559	2.5582	3.2470	3.9403	4.8652	6.1791	7.2672	8.2955	9.3418
11	2.6032	3.0535	3.8157	4.5748	5.5778	6.9887	8.1479	9.2373	10.3410
12	3.0738	3.5706	4.4038	5.2260	6.3038	7.8073	9.0343	10.1820	11.3403
13	3.5650	4.1069	5.0088	5.8919	7.0415	8.6339	9.9257	11.1291	12.3398
14	4.0747	4.6604	5.6287	6.5706	7.7895	9.4673	10.8215	12.0785	13.3393
15	4.6009	5.2293	6.2621	7.2609	8.5468	10.3070	11.7212	13.0297	14.3389
16	5.1422	5.8122	6.9077	7.9616	9.3122	11.1521	12.6243	13.9827	15.3385
17	5.6972	6.4078	7.5642	8.6718	10.0852	12.0023	13.5307	14.9373	16.3382
18	6.2648	7.0149	8.2307	9.3905	10.8649	12.8570	14.4399	15.8932	17.3379
19	6.8440	7.6327	8.9065	10.1170	11.6509	13.7158	15.3517	16.8504	18.3377
20	7.4338	8.2604	9.5908	10.8508	12.4426	14.5784	16.2659	17.8088	19.3374
21	8.0337	8.8972	10.2829	11.5913	13.2396	15.4446	17.1823	18.7683	20.3372
22	8.6427	9.5425	10.9823	12.3380	14.0415	16.3140	18.1007	19.7288	21.3370
23	9.2604	10.1957	11.6886	13.0905	14.8480	17.1865	19.0211	20.6902	22.3369
24	9.8862	10.8564	12.4012	13.8484	15.6587	18.0618	19.9432	21.6525	23.3367
25	10.5197	11.5240	13.1197	14.6114	16.4734	18.9398	20.8670	22.6156	24.3366
26	11.1602	12.1981	13.8439	15.3792	17.2919	19.8202	21.7924	23.5794	25.3365
27	11.8076	12.8785	14.5734	16.1514	18.1139	20.7030	22.7192	24.5440	26.3363
28	12.4613	13.5647	15.3079	16.9279	18.9392	21.5880	23.6475	25.5093	27.3362
29	13.1211	14.2565	16.0471	17.7084	19.7677	22.4751	24.5770	26.4751	28.3361
30	13.7867	14.9535	16.7908	18.4927	20.5992	23.3641	25.5078	27.4416	29.3360
31	14.4578	15.6555	17.5387	19.2806	21.4336	24.2551	26.4397	28.4087	30.3359
32	15.1340	16.3622	18.2908	20.0719	22.2706	25.1478	27.3728	29.3763	31.3359
33	15.8153	17.0735	19.0467	20.8665	23.1102	26.0422	28.3069	30.3444	32.3358
34	16.5013	17.7891	19.8063	21.6643	23.9523	26.9383	29.2421	31.3130	33.3357
35	17.1918	18.5089	20.5694	22.4650	24.7967	27.8359	30.1782	32.2821	34.3356
36	17.8867	19.2327	21.3359	23.2686	25.6433	28.7350	31.1152	33.2517	35.3356
37	18.5858	19.9602	22.1056	24.0749	26.4921	29.6355	32.0532	34.2216	36.3355
38	19.2889	20.6914	22.8785	24.8839	27.3430	30.5373	32.9919	35.1920	37.3355
39	19.9959	21.4262	23.6543	25.6954	28.1958	31.4405	33.9315	36.1628	38.3354

	0.995	0.990	0.975	0.950	0.900	0.800	0.700	0.600	0.500
40	20.7065	22.1643	24.4330	26.5093	29.0505	32.3450	34.8719	37.1340	39.3353
41	21.4208	22.9056	25.2145	27.3256	29.9071	33.2506	35.8131	38.1055	40.3353
42	22.1385	23.6501	25.9987	28.1440	30.7654	34.1574	36.7550	39.0774	41.3352
43	22.8595	24.3976	26.7854	28.9647	31.6255	35.0653	37.6975	40.0496	42.3352
44	23.5837	25.1480	27.5746	29.7875	32.4871	35.9743	38.6408	41.0222	43.3352
45	24.3110	25.9013	28.3662	30.6123	33.3504	36.8844	39.5847	41.9950	44.3351
46	25.0413	26.6572	29.1601	31.4390	34.2152	37.7955	40.5292	42.9682	45.3351
47	25.7746	27.4158	29.9562	32.2676	35.0814	38.7075	41.4744	43.9417	46.3350
48	26.5106	28.1770	30.7545	33.0981	35.9491	39.6205	42.4201	44.9154	47.3350
49	27.2493	28.9406	31.5549	33.9303	36.8182	40.5344	43.3664	45.8895	48.3350
50	27.9907	29.7067	32.3574	34.7643	37.6886	41.4492	44.3133	46.8638	49.3349
51	28.7347	30.4750	33.1618	35.5999	38.5604	42.3649	45.2607	47.8383	50.3349
52	29.4812	31.2457	33.9681	36.4371	39.4334	43.2814	46.2086	48.8132	51.3349
53	30.2300	32.0185	34.7763	37.2759	40.3076	44.1987	47.1571	49.7882	52.3348
54	30.9813	32.7934	35.5863	38.1162	41.1830	45.1167	48.1060	50.7635	53.3348
55	31.7348	33.5705	36.3981	38.9580	42.0596	46.0356	49.0554	51.7391	54.3348
56	32.4905	34.3495	37.2116	39.8013	42.9373	46.9552	50.0053	52.7148	55.3348
57	33.2484	35.1305	38.0267	40.6459	43.8161	47.8755	50.9556	53.6908	56.3347
58	34.0084	35.9135	38.8435	41.4920	44.6960	48.7965	51.9063	54.6670	57.3347
59	34.7704	36.6982	39.6619	42.3393	45.5770	49.7182	52.8575	55.6434	58.3347
60	35.5345	37.4849	40.4817	43.1880	46.4589	50.6406	53.8091	56.6200	59.3347
61	36.3005	38.2732	41.3031	44.0379	47.3418	51.5636	54.7611	57.5968	60.3346
62	37.0684	39.0633	42.1260	44.8890	48.2257	52.4873	55.7135	58.5738	61.3346
63	37.8382	39.8551	42.9503	45.7414	49.1105	53.4116	56.6663	59.5510	62.3346
64	38.6098	40.6486	43.7760	46.5949	49.9963	54.3365	57.6195	60.5283	63.3346
65	39.3831	41.4436	44.6030	47.4496	50.8829	55.2620	58.5731	61.5059	64.3346
66	40.1582	42.2402	45.4314	48.3054	51.7705	56.1880	59.5270	62.4836	65.3345
67	40.9350	43.0384	46.2610	49.1623	52.6588	57.1147	60.4812	63.4615	66.3345
68	41.7135	43.8380	47.0920	50.0202	53.5481	58.0418	61.4358	64.4395	67.3345
69	42.4935	44.6392	47.9242	50.8792	54.4381	58.9696	62.3908	65.4177	68.3345
70	43.2752	45.4417	48.7576	51.7393	55.3289	59.8978	63.3460	66.3961	69.3345
71	44.0584	46.2457	49.5922	52.6003	56.2206	60.8266	64.3016	67.3746	70.3345
72	44.8431	47.0510	50.4279	53.4623	57.1129	61.7558	65.2575	68.3533	71.3344
73	45.6293	47.8577	51.2648	54.3253	58.0061	62.6856	66.2137	69.3322	72.3344
74	46.4170	48.6657	52.1028	55.1892	58.9000	63.6158	67.1702	70.3111	73.3344
75	47.2060	49.4750	52.9419	56.0541	59.7946	64.5466	68.1271	71.2903	74.3344
76	47.9965	50.2856	53.7821	56.9198	60.6899	65.4777	69.0842	72.2695	75.3344
77	48.7884	51.0974	54.6234	57.7864	61.5858	66.4094	70.0415	73.2489	76.3344
78	49.5816	51.9104	55.4656	58.6539	62.4825	67.3415	70.9992	74.2285	77.3344

	0.995	0.990	0.975	0.950	0.900	0.800	0.700	0.600	0.500
79	50.3761	52.7247	56.3089	59.5223	63.3799	68.2740	71.9571	75.2081	78.3343
80	51.1719	53.5401	57.1532	60.3915	64.2778	69.2069	72.9153	76.1879	79.3343
81	51.9690	54.3566	57.9984	61.2615	65.1765	70.1403	73.8738	77.1679	80.3343
82	52.7674	55.1743	58.8446	62.1323	66.0757	71.0741	74.8325	78.1479	81.3343
83	53.5669	55.9931	59.6918	63.0039	66.9756	72.0083	75.7915	79.1281	82.3343
84	54.3677	56.8130	60.5398	63.8763	67.8761	72.9429	76.7507	80.1084	83.3343
85	55.1696	57.6339	61.3888	64.7494	68.7772	73.8779	77.7102	81.0888	84.3343
86	55.9727	58.4559	62.2386	65.6233	69.6788	74.8132	78.6699	82.0693	85.3343
87	56.7769	59.2790	63.0894	66.4979	70.5810	75.7490	79.6299	83.0500	86.3342
88	57.5823	60.1030	63.9409	67.3732	71.4838	76.6851	80.5901	84.0307	87.3342
89	58.3888	60.9281	64.7934	68.2493	72.3872	77.6216	81.5505	85.0116	88.3342
90	59.1963	61.7541	65.6466	69.1260	73.2911	78.5584	82.5111	85.9925	89.3342
91	60.0049	62.5811	66.5007	70.0035	74.1955	79.4956	83.4719	86.9736	90.3342
92	60.8146	63.4090	67.3556	70.8816	75.1005	80.4332	84.4330	87.9548	91.3342
93	61.6253	64.2379	68.2112	71.7603	76.0060	81.3711	85.3943	88.9361	92.3342
94	62.4370	65.0677	69.0677	72.6398	76.9119	82.3093	86.3558	89.9175	93.3342
95	63.2496	65.8984	69.9249	73.5198	77.8184	83.2478	87.3175	90.8990	94.3342
96	64.0633	66.7299	70.7828	74.4005	78.7254	84.1867	88.2794	91.8806	95.3342
97	64.8780	67.5624	71.6415	75.2819	79.6329	85.1259	89.2415	92.8622	96.3342
98	65.6936	68.3957	72.5009	76.1638	80.5408	86.0654	90.2038	93.8440	97.3341
99	66.5101	69.2299	73.3611	77.0463	81.4493	87.0052	91.1663	94.8259	98.3341
100	67.3276	70.0649	74.2219	77.9295	82.3581	87.9453	92.1289	95.8078	99.3341
110	75.5500	78.4583	82.8671	86.7916	91.4710	97.3624	101.7656	105.6323	109.3341
120	83.8516	86.9233	91.5726	95.7046	100.6236	106.8056	111.4186	115.4645	119.3340
130	92.2225	95.4510	100.3313	104.6622	109.8110	116.2717	121.0858	125.3037	129.3339
140	100.6548	104.0344	109.1369	113.6593	119.0293	125.7581	130.7657	135.1490	139.3339
150	109.1422	112.6676	117.9845	122.6918	128.2751	135.2625	140.4569	144.9998	149.3339
160	117.6793	121.3456	126.8700	131.7561	137.5457	144.7834	150.1582	154.8555	159.3338
170	126.2613	130.0644	135.7900	140.8492	146.8389	154.3190	159.8689	164.7157	169.3338
180	134.8844	138.8204	144.7413	149.9688	156.1526	163.8682	169.5879	174.5799	179.3338
190	143.5453	147.6104	153.7213	159.1125	165.4853	173.4298	179.3147	184.4479	189.3338
200	152.2410	156.4320	162.7280	168.2786	174.8353	183.0028	189.0486	194.3193	199.3337

	0.400	0.300	0.200	0.100	0.050	0.025	0.010	0.005	0.001
1	0.7083	1.0742	1.6424	2.7055	3.8415	5.0239	6.6349	7.8794	10.8276
2	1.8326	2.4079	3.2189	4.6052	5.9915	7.3778	9.2103	10.5966	13.8155
3	2.9462	3.6649	4.6416	6.2514	7.8147	9.3484	11.3449	12.8382	16.2662
4	4.0446	4.8784	5.9886	7.7794	9.4877	11.1433	13.2767	14.8603	18.4668
5	5.1319	6.0644	7.2893	9.2364	11.0705	12.8325	15.0863	16.7496	20.5150
6	6.2108	7.2311	8.5581	10.6446	12.5916	14.4494	16.8119	18.5476	22.4577
7	7.2832	8.3834	9.8032	12.0170	14.0671	16.0128	18.4753	20.2777	24.3219
8	8.3505	9.5245	11.0301	13.3616	15.5073	17.5345	20.0902	21.9550	26.1245
9	9.4136	10.6564	12.2421	14.6837	16.9190	19.0228	21.6660	23.5894	27.8772
10	10.4732	11.7807	13.4420	15.9872	18.3070	20.4832	23.2093	25.1882	29.5883
11	11.5298	12.8987	14.6314	17.2750	19.6751	21.9200	24.7250	26.7568	31.2641
12	12.5838	14.0111	15.8120	18.5493	21.0261	23.3367	26.2170	28.2995	32.9095
13	13.6356	15.1187	16.9848	19.8119	22.3620	24.7356	27.6882	29.8195	34.5282
14	14.6853	16.2221	18.1508	21.0641	23.6848	26.1189	29.1412	31.3193	36.1233
15	15.7332	17.3217	19.3107	22.3071	24.9958	27.4884	30.5779	32.8013	37.6973
16	16.7795	18.4179	20.4651	23.5418	26.2962	28.8454	31.9999	34.2672	39.2524
17	17.8244	19.5110	21.6146	24.7690	27.5871	30.1910	33.4087	35.7185	40.7902
18	18.8679	20.6014	22.7595	25.9894	28.8693	31.5264	34.8053	37.1565	42.3124
19	19.9102	21.6891	23.9004	27.2036	30.1435	32.8523	36.1909	38.5823	43.8202
20	20.9514	22.7745	25.0375	28.4120	31.4104	34.1696	37.5662	39.9968	45.3147
21	21.9915	23.8578	26.1711	29.6151	32.6706	35.4789	38.9322	41.4011	46.7970
22	23.0307	24.9390	27.3015	30.8133	33.9244	36.7807	40.2894	42.7957	48.2679
23	24.0689	26.0184	28.4288	32.0069	35.1725	38.0756	41.6384	44.1813	49.7282
24	25.1063	27.0960	29.5533	33.1962	36.4150	39.3641	42.9798	45.5585	51.1786
25	26.1430	28.1719	30.6752	34.3816	37.6525	40.6465	44.3141	46.9279	52.6197
26	27.1789	29.2463	31.7946	35.5632	38.8851	41.9232	45.6417	48.2899	54.0520
27	28.2141	30.3193	32.9117	36.7412	40.1133	43.1945	46.9629	49.6449	55.4760
28	29.2486	31.3909	34.0266	37.9159	41.3371	44.4608	48.2782	50.9934	56.8923
29	30.2825	32.4612	35.1394	39.0875	42.5570	45.7223	49.5879	52.3356	58.3012
30	31.3159	33.5302	36.2502	40.2560	43.7730	46.9792	50.8922	53.6720	59.7031
31	32.3486	34.5981	37.3591	41.4217	44.9853	48.2319	52.1914	55.0027	61.0983
32	33.3809	35.6649	38.4663	42.5847	46.1943	49.4804	53.4858	56.3281	62.4872
33	34.4126	36.7307	39.5718	43.7452	47.3999	50.7251	54.7755	57.6484	63.8701
34	35.4438	37.7954	40.6756	44.9032	48.6024	51.9660	56.0609	58.9639	65.2472
35	36.4746	38.8591	41.7780	46.0588	49.8018	53.2033	57.3421	60.2748	66.6188
36	37.5049	39.9220	42.8788	47.2122	50.9985	54.4373	58.6192	61.5812	67.9852
37	38.5348	40.9839	43.9782	48.3634	52.1923	55.6680	59.8925	62.8833	69.3465
38	39.5643	42.0451	45.0763	49.5126	53.3835	56.8955	61.1621	64.1814	70.7029
39	40.5935	43.1053	46.1730	50.6598	54.5722	58.1201	62.4281	65.4756	72.0547

	0.400	0.300	0.200	0.100	0.050	0.025	0.010	0.005	0.001
40	41.6222	44.1649	47.2685	51.8051	55.7585	59.3417	63.6907	66.7660	73.4020
41	42.6506	45.2236	48.3628	52.9485	56.9424	60.5606	64.9501	68.0527	74.7449
42	43.6786	46.2817	49.4560	54.0902	58.1240	61.7768	66.2062	69.3360	76.0838
43	44.7063	47.3390	50.5480	55.2302	59.3035	62.9904	67.4593	70.6159	77.4186
44	45.7336	48.3957	51.6389	56.3685	60.4809	64.2015	68.7095	71.8926	78.7495
45	46.7607	49.4517	52.7288	57.5053	61.6562	65.4102	69.9568	73.1661	80.0767
46	47.7874	50.5071	53.8177	58.6405	62.8296	66.6165	71.2014	74.4365	81.4003
47	48.8139	51.5619	54.9056	59.7743	64.0011	67.8206	72.4433	75.7041	82.7204
48	49.8401	52.6161	55.9926	60.9066	65.1708	69.0226	73.6826	76.9688	84.0371
49	50.8660	53.6697	57.0786	62.0375	66.3386	70.2224	74.9195	78.2307	85.3506
50	51.8916	54.7228	58.1638	63.1671	67.5048	71.4202	76.1539	79.4900	86.6608
51	52.9170	55.7753	59.2481	64.2954	68.6693	72.6160	77.3860	80.7467	87.9680
52	53.9421	56.8274	60.3316	65.4224	69.8322	73.8099	78.6158	82.0008	89.2722
53	54.9670	57.8789	61.4142	66.5482	70.9935	75.0019	79.8433	83.2526	90.5734
54	55.9916	58.9299	62.4961	67.6728	72.1532	76.1920	81.0688	84.5019	91.8718
55	57.0160	59.9805	63.5772	68.7962	73.3115	77.3805	82.2921	85.7490	93.1675
56	58.0402	61.0305	64.6576	69.9185	74.4683	78.5672	83.5134	86.9938	94.4605
57	59.0642	62.0802	65.7373	71.0397	75.6237	79.7522	84.7328	88.2364	95.7510
58	60.0879	63.1294	66.8162	72.1598	76.7778	80.9356	85.9502	89.4769	97.0388
59	61.1115	64.1782	67.8945	73.2789	77.9305	82.1174	87.1657	90.7153	98.3242
60	62.1348	65.2265	68.9721	74.3970	79.0819	83.2977	88.3794	91.9517	99.6072
61	63.1580	66.2745	70.0490	75.5141	80.2321	84.4764	89.5913	93.1861	100.8879
62	64.1810	67.3220	71.1253	76.6302	81.3810	85.6537	90.8015	94.4187	102.1662
63	65.2037	68.3692	72.2010	77.7454	82.5287	86.8296	92.0100	95.6493	103.4424
64	66.2263	69.4160	73.2761	78.8596	83.6753	88.0041	93.2169	96.8781	104.7163
65	67.2488	70.4624	74.3506	79.9730	84.8206	89.1771	94.4221	98.1051	105.9881
66	68.2710	71.5085	75.4245	81.0855	85.9649	90.3489	95.6257	99.3304	107.2579
67	69.2931	72.5542	76.4978	82.1971	87.1081	91.5194	96.8278	100.5540	108.5256
68	70.3150	73.5995	77.5707	83.3079	88.2502	92.6885	98.0284	101.7759	109.7913
69	71.3368	74.6446	78.6429	84.4179	89.3912	93.8565	99.2275	102.9962	111.0551
70	72.3583	75.6893	79.7146	85.5270	90.5312	95.0232	100.4252	104.2149	112.3169
71	73.3798	76.7337	80.7859	86.6354	91.6702	96.1887	101.6214	105.4320	113.5769
72	74.4011	77.7777	81.8566	87.7430	92.8083	97.3531	102.8163	106.6476	114.8351
73	75.4222	78.8215	82.9268	88.8499	93.9453	98.5163	104.0098	107.8617	116.0915
74	76.4432	79.8650	83.9965	89.9560	95.0815	99.6783	105.2020	109.0744	117.3462
75	77.4640	80.9081	85.0658	91.0615	96.2167	100.8393	106.3929	110.2856	118.5991
76	78.4848	81.9510	86.1346	92.1662	97.3510	101.9993	107.5825	111.4954	119.8503
77	79.5053	82.9936	87.2030	93.2702	98.4844	103.1581	108.7709	112.7038	121.1000
78	80.5258	84.0359	88.2709	94.3735	99.6169	104.3159	109.9581	113.9109	122.3480

	0.400	0.300	0.200	0.100	0.050	0.025	0.010	0.005	0.001
79	81.5461	85.0779	89.3383	95.4762	100.7486	105.4728	111.1440	115.1166	123.5944
80	82.5663	86.1197	90.4053	96.5782	101.8795	106.6286	112.3288	116.3211	124.8392
81	83.5863	87.1612	91.4720	97.6796	103.0095	107.7834	113.5124	117.5242	126.0826
82	84.6062	88.2025	92.5382	98.7803	104.1387	108.9373	114.6949	118.7261	127.3244
83	85.6260	89.2435	93.6039	99.8805	105.2672	110.0902	115.8763	119.9268	128.5648
84	86.6457	90.2842	94.6693	100.9800	106.3948	111.2423	117.0565	121.1263	129.8037
85	87.6653	91.3247	95.7343	102.0789	107.5217	112.3934	118.2357	122.3246	131.0412
86	88.6847	92.3650	96.7990	103.1773	108.6479	113.5436	119.4139	123.5217	132.2773
87	89.7041	93.4050	97.8632	104.2750	109.7733	114.6929	120.5910	124.7177	133.5121
88	90.7233	94.4448	98.9271	105.3722	110.8980	115.8414	121.7671	125.9125	134.7455
89	91.7424	95.4844	99.9906	106.4689	112.0220	116.9891	122.9422	127.1063	135.9776
90	92.7614	96.5238	101.0537	107.5650	113.1453	118.1359	124.1163	128.2989	137.2084
91	93.7803	97.5629	102.1165	108.6606	114.2679	119.2819	125.2895	129.4905	138.4379
92	94.7991	98.6018	103.1790	109.7556	115.3898	120.4271	126.4617	130.6811	139.6661
93	95.8178	99.6405	104.2411	110.8502	116.5110	121.5715	127.6329	131.8706	140.8931
94	96.8364	100.6790	105.3028	111.9442	117.6317	122.7151	128.8032	133.0591	142.1189
95	97.8549	101.7173	106.3643	113.0377	118.7516	123.8580	129.9727	134.2465	143.3435
96	98.8733	102.7554	107.4254	114.1307	119.8709	125.0001	131.1412	135.4330	144.5670
97	99.8916	103.7933	108.4862	115.2232	120.9896	126.1414	132.3089	136.6186	145.7892
98	100.9098	104.8310	109.5467	116.3153	122.1077	127.2821	133.4757	137.8032	147.0104
99	101.9279	105.8685	110.6068	117.4069	123.2252	128.4220	134.6416	138.9868	148.2304
100	102.9459	106.9058	111.6667	118.4980	124.3421	129.5612	135.8067	140.1695	149.4493
110	113.1214	117.2690	122.2495	129.3851	135.4802	140.9166	147.4143	151.9485	161.5807
120	123.2890	127.6159	132.8063	140.2326	146.5674	152.2114	158.9502	163.6482	173.6174
130	133.4497	137.9486	143.3401	151.0452	157.6099	163.4531	170.4231	175.2783	185.5710
140	143.6043	148.2686	153.8537	161.8270	168.6130	174.6478	181.8403	186.8468	197.4508
150	153.7535	158.5774	164.3492	172.5812	179.5806	185.8004	193.2077	198.3602	209.2646
160	163.8977	168.8759	174.8283	183.3106	190.5165	196.9151	204.5301	209.8239	221.0190
170	174.0375	179.1653	185.2926	194.0174	201.4234	207.9954	215.8117	221.2424	232.7194
180	184.1732	189.4462	195.7434	204.7037	212.3039	219.0443	227.0561	232.6198	244.3705
190	194.3052	199.7194	206.1818	215.3711	223.1602	230.0644	238.2664	243.9594	255.9763
200	204.4337	209.9854	216.6088	226.0210	233.9943	241.0579	249.4451	255.2642	267.5405

この表は試験時に持参してかまいません。