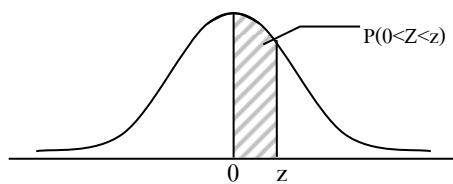


Table I Standard Normal Distribution Table

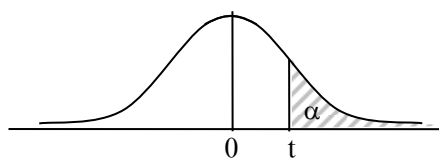
The entries in this table give the areas under the standard normal curve from 0 to z



z	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.0	0.0000	0.0040	0.0080	0.0120	0.0160	0.0199	0.0239	0.0279	0.0319	0.0359
0.1	0.0398	0.0438	0.0478	0.0517	0.0557	0.0596	0.0636	0.0675	0.0714	0.0753
0.2	0.0793	0.0832	0.0871	0.0910	0.0948	0.0987	0.1026	0.1064	0.1103	0.1141
0.3	0.1179	0.1217	0.1255	0.1293	0.1331	0.1368	0.1406	0.1443	0.1480	0.1517
0.4	0.1554	0.1591	0.1628	0.1664	0.1700	0.1736	0.1772	0.1808	0.1844	0.1879
0.5	0.1915	0.1950	0.1985	0.2019	0.2054	0.2088	0.2123	0.2157	0.2190	0.2224
0.6	0.2257	0.2291	0.2324	0.2357	0.2389	0.2422	0.2454	0.2486	0.2517	0.2549
0.7	0.2580	0.2611	0.2642	0.2673	0.2704	0.2734	0.2764	0.2794	0.2823	0.2852
0.8	0.2881	0.2910	0.2939	0.2967	0.2995	0.3023	0.3051	0.3078	0.3106	0.3133
0.9	0.3159	0.3186	0.3212	0.3238	0.3264	0.3289	0.3315	0.3340	0.3365	0.3389
1.0	0.3413	0.3438	0.3461	0.3485	0.3508	0.3531	0.3554	0.3577	0.3599	0.3621
1.1	0.3643	0.3665	0.3686	0.3708	0.3729	0.3749	0.3770	0.3790	0.3810	0.3830
1.2	0.3849	0.3869	0.3888	0.3907	0.3925	0.3944	0.3962	0.3980	0.3997	0.4015
1.3	0.4032	0.4049	0.4066	0.4082	0.4099	0.4115	0.4131	0.4147	0.4162	0.4177
1.4	0.4192	0.4207	0.4222	0.4236	0.4251	0.4265	0.4279	0.4292	0.4306	0.4319
1.5	0.4332	0.4345	0.4357	0.4370	0.4382	0.4394	0.4406	0.4418	0.4429	0.4441
1.6	0.4452	0.4463	0.4474	0.4484	0.4495	0.4505	0.4515	0.4525	0.4535	0.4545
1.7	0.4554	0.4564	0.4573	0.4582	0.4591	0.4599	0.4608	0.4616	0.4625	0.4633
1.8	0.4641	0.4649	0.4656	0.4664	0.4671	0.4678	0.4686	0.4693	0.4699	0.4706
1.9	0.4713	0.4719	0.4726	0.4732	0.4738	0.4744	0.4750	0.4756	0.4761	0.4767
2.0	0.4772	0.4778	0.4783	0.4788	0.4793	0.4798	0.4803	0.4808	0.4812	0.4817
2.1	0.4821	0.4826	0.4830	0.4834	0.4838	0.4842	0.4846	0.4850	0.4854	0.4857
2.2	0.4861	0.4864	0.4868	0.4871	0.4875	0.4878	0.4881	0.4884	0.4887	0.4890
2.3	0.4893	0.4896	0.4898	0.4901	0.4904	0.4906	0.4909	0.4911	0.4913	0.4916
2.4	0.4918	0.4920	0.4922	0.4925	0.4927	0.4929	0.4931	0.4932	0.4934	0.4936
2.5	0.4938	0.4940	0.4941	0.4943	0.4945	0.4946	0.4948	0.4949	0.4951	0.4952
2.6	0.4953	0.4955	0.4956	0.4957	0.4959	0.4960	0.4961	0.4962	0.4963	0.4964
2.7	0.4965	0.4966	0.4967	0.4968	0.4969	0.4970	0.4971	0.4972	0.4973	0.4974
2.8	0.4974	0.4975	0.4976	0.4977	0.4977	0.4978	0.4979	0.4979	0.4980	0.4981
2.9	0.4981	0.4982	0.4982	0.4983	0.4984	0.4984	0.4985	0.4985	0.4986	0.4986
3.0	0.4987	0.4987	0.4987	0.4988	0.4988	0.4989	0.4989	0.4989	0.4990	0.4990

Table II The t Distribution Table

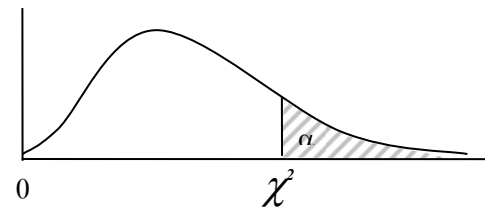
The entries in this table give the critical values
of t for the specified number of degrees
of freedom and areas in the right tail



df	Area in the Right Tail under the t Distribution Curve (α)												
	0.45	0.40	0.35	0.30	0.25	0.20	0.15	0.10	0.05	0.025	0.010	0.005	0.0005
1	0.158	0.325	0.510	0.727	1.000	1.376	1.963	3.078	6.314	12.71	31.82	63.66	636.6
2	0.142	0.289	0.445	0.617	0.816	1.061	1.386	1.886	2.920	4.303	6.965	9.925	31.60
3	0.137	0.277	0.424	0.584	0.765	0.978	1.250	1.638	2.353	3.182	4.541	5.841	12.92
4	0.134	0.271	0.414	0.569	0.741	0.941	1.190	1.533	2.132	2.776	3.747	4.604	8.610
5	0.132	0.267	0.408	0.559	0.727	0.920	1.156	1.476	2.015	2.571	3.365	4.032	6.869
6	0.131	0.265	0.404	0.553	0.718	0.906	1.134	1.440	1.943	2.447	3.143	3.707	5.959
7	0.130	0.263	0.402	0.549	0.711	0.896	1.119	1.415	1.895	2.365	2.998	3.499	5.408
8	0.130	0.262	0.399	0.546	0.706	0.889	1.108	1.397	1.860	2.306	2.896	3.355	5.041
9	0.129	0.261	0.398	0.543	0.703	0.883	1.100	1.383	1.833	2.262	2.821	3.250	4.781
10	0.129	0.260	0.397	0.542	0.700	0.879	1.093	1.372	1.812	2.228	2.764	3.169	4.587
11	0.129	0.260	0.396	0.540	0.697	0.876	1.088	1.363	1.796	2.201	2.718	3.106	4.437
12	0.128	0.259	0.395	0.539	0.695	0.873	1.083	1.356	1.782	2.179	2.681	3.055	4.318
13	0.128	0.259	0.394	0.538	0.694	0.870	1.079	1.350	1.771	2.160	2.650	3.012	4.221
14	0.128	0.258	0.393	0.537	0.692	0.868	1.076	1.345	1.761	2.145	2.624	2.977	4.140
15	0.128	0.258	0.393	0.536	0.691	0.866	1.074	1.341	1.753	2.131	2.602	2.947	4.073
16	0.128	0.258	0.392	0.535	0.690	0.865	1.071	1.337	1.746	2.120	2.583	2.921	4.015
17	0.128	0.257	0.392	0.534	0.689	0.863	1.069	1.333	1.740	2.110	2.567	2.898	3.965
18	0.127	0.257	0.392	0.534	0.688	0.862	1.067	1.330	1.734	2.101	2.552	2.878	3.922
19	0.127	0.257	0.391	0.533	0.688	0.861	1.066	1.328	1.729	2.093	2.539	2.861	3.883
20	0.127	0.257	0.391	0.533	0.687	0.860	1.064	1.325	1.725	2.086	2.528	2.845	3.850
21	0.127	0.257	0.391	0.532	0.686	0.859	1.063	1.323	1.721	2.080	2.518	2.831	3.819
22	0.127	0.256	0.390	0.532	0.686	0.858	1.061	1.321	1.717	2.074	2.508	2.819	3.792
23	0.127	0.256	0.390	0.532	0.685	0.858	1.060	1.319	1.714	2.069	2.500	2.807	3.768
24	0.127	0.256	0.390	0.531	0.685	0.857	1.059	1.318	1.711	2.064	2.492	2.797	3.745
25	0.127	0.256	0.390	0.531	0.684	0.856	1.058	1.316	1.708	2.060	2.485	2.787	3.725
26	0.127	0.256	0.390	0.531	0.684	0.856	1.058	1.315	1.706	2.056	2.479	2.779	3.707
27	0.127	0.256	0.389	0.531	0.684	0.855	1.057	1.314	1.703	2.052	2.473	2.771	3.689
28	0.127	0.256	0.389	0.530	0.683	0.855	1.056	1.313	1.701	2.048	2.467	2.763	3.674
29	0.127	0.256	0.389	0.530	0.683	0.854	1.055	1.311	1.699	2.045	2.462	2.756	3.660
30	0.127	0.256	0.389	0.530	0.683	0.854	1.055	1.310	1.697	2.042	2.457	2.750	3.646
31	0.127	0.256	0.389	0.530	0.682	0.853	1.054	1.309	1.696	2.040	2.453	2.744	3.633
32	0.127	0.255	0.389	0.530	0.682	0.853	1.054	1.309	1.694	2.037	2.449	2.738	3.622
33	0.127	0.255	0.389	0.530	0.682	0.853	1.053	1.308	1.692	2.035	2.445	2.733	3.611
34	0.127	0.255	0.389	0.529	0.682	0.852	1.052	1.307	1.691	2.032	2.441	2.728	3.601
35	0.127	0.255	0.388	0.529	0.682	0.852	1.052	1.306	1.690	2.030	2.438	2.724	3.591
40	0.126	0.255	0.388	0.529	0.681	0.851	1.050	1.303	1.684	2.021	2.423	2.704	3.551
60	0.126	0.254	0.387	0.527	0.679	0.848	1.045	1.296	1.671	2.000	2.390	2.660	3.460
120	0.126	0.254	0.386	0.526	0.677	0.845	1.041	1.289	1.658	1.980	2.358	2.617	3.373
∞	0.126	0.253	0.385	0.524	0.675	0.842	1.036	1.282	1.645	1.960	2.327	2.576	3.291

Table III The Chi-Square Distribution Table

The entries in this table give the critical values of χ^2 for the specified number of degrees of freedom and areas in the right tail



df	Area in the Right Tail under the Chi-square Distribution Curve (α)									
	0.005	0.010	0.025	0.050	0.100	0.900	0.950	0.975	0.990	0.995
1	7.879	6.635	5.024	3.841	2.706	0.016	0.004	0.001	0.000	0.000
2	10.597	9.210	7.378	5.991	4.605	0.211	0.103	0.051	0.020	0.010
3	12.838	11.34	9.35	7.815	6.251	0.584	0.352	0.216	0.115	0.072
4	14.860	13.28	11.14	9.488	7.779	1.064	0.711	0.484	0.297	0.207
5	16.750	15.09	12.83	11.07	9.236	1.610	1.145	0.831	0.554	0.412
6	18.548	16.81	14.45	12.59	10.64	2.204	1.635	1.237	0.872	0.676
7	20.278	18.48	16.01	14.07	12.02	2.833	2.167	1.690	1.239	0.989
8	21.955	20.09	17.53	15.51	13.36	3.490	2.733	2.180	1.647	1.344
9	23.589	21.67	19.02	16.92	14.68	4.168	3.325	2.700	2.088	1.735
10	25.188	23.21	20.48	18.31	15.99	4.865	3.940	3.247	2.558	2.156
11	26.757	24.73	21.92	19.68	17.28	5.578	4.575	3.816	3.053	2.603
12	28.300	26.22	23.34	21.03	18.55	6.304	5.226	4.404	3.571	3.074
13	29.819	27.69	24.74	22.36	19.81	7.041	5.892	5.009	4.107	3.565
14	31.319	29.14	26.12	23.68	21.06	7.790	6.571	5.629	4.660	4.075
15	32.801	30.58	27.49	25.00	22.31	8.547	7.261	6.262	5.229	4.601
16	34.267	32.00	28.85	26.30	23.54	9.312	7.962	6.908	5.812	5.142
17	35.718	33.41	30.19	27.59	24.77	10.09	8.672	7.564	6.408	5.697
18	37.156	34.81	31.53	28.87	25.99	10.86	9.390	8.231	7.015	6.265
19	38.582	36.19	32.85	30.14	27.20	11.65	10.12	8.907	7.633	6.844
20	39.997	37.57	34.17	31.41	28.41	12.44	10.85	9.591	8.260	7.434
21	41.401	38.93	35.48	32.67	29.62	13.24	11.59	10.28	8.897	8.034
22	42.796	40.29	36.78	33.92	30.81	14.04	12.34	10.98	9.542	8.643
23	44.181	41.64	38.08	35.17	32.01	14.85	13.09	11.69	10.196	9.260
24	45.558	42.98	39.36	36.42	33.20	15.66	13.85	12.40	10.856	9.886
25	46.928	44.31	40.65	37.65	34.38	16.47	14.61	13.12	11.524	10.52
26	48.290	45.64	41.92	38.89	35.56	17.29	15.38	13.84	12.198	11.16
27	49.645	46.96	43.19	40.11	36.74	18.11	16.15	14.57	12.878	11.81
28	50.994	48.28	44.46	41.34	37.92	18.94	16.93	15.31	13.565	12.46
29	52.335	49.59	45.72	42.56	39.09	19.77	17.71	16.05	14.256	13.12
30	53.672	50.89	46.98	43.77	40.26	20.60	18.49	16.79	14.953	13.79
40	66.766	63.69	59.34	55.76	51.81	29.05	26.51	24.43	22.164	20.71
50	79.490	76.15	71.42	67.50	63.17	37.69	34.76	32.36	29.707	27.99
60	91.952	88.38	83.30	79.08	74.40	46.46	43.19	40.48	37.485	35.53
70	104.215	100.4	95.02	90.53	85.53	55.33	51.74	48.76	45.442	43.28
80	116.321	112.3	106.6	101.9	96.58	64.28	60.39	57.15	53.540	51.17
90	128.299	124.12	118.14	113.15	107.57	73.29	69.13	65.65	61.754	59.20
100	140.170	135.81	129.56	124.34	118.50	82.36	77.93	74.22	70.065	67.33