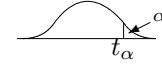


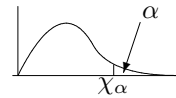
표 A.1: $X \sim B(n, 1/2)$ 일 때 $\Pr[X \leq x]$ 확률[illegible]

표 A.2: 표준정규분포 확률 $\Pr[Z > z_\alpha]$ 

z_α	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
0.0	.5000	.4960	.4920	.4880	.4840	.4801	.4761	.4721	.4681	.4641
0.1	.4602	.4562	.4522	.4483	.4443	.4404	.4364	.4325	.4286	.4247
0.2	.4207	.4168	.4129	.4090	.4052	.4013	.3974	.3936	.3897	.3859
0.3	.3821	.3783	.3745	.3707	.3669	.3632	.3594	.3557	.3520	.3483
0.4	.3446	.3409	.3372	.3336	.3300	.3264	.3228	.3192	.3156	.3121
0.5	.3085	.3050	.3015	.2981	.2946	.2912	.2877	.2843	.2810	.2776
0.6	.2743	.2709	.2676	.2643	.2611	.2578	.2546	.2514	.2483	.2451
0.7	.2420	.2389	.2358	.2327	.2296	.2266	.2236	.2206	.2177	.2148
0.8	.2119	.2090	.2061	.2033	.2005	.1977	.1949	.1922	.1894	.1867
0.9	.1841	.1814	.1788	.1762	.1736	.1711	.1685	.1660	.1635	.1611
1.0	.1587	.1562	.1539	.1515	.1492	.1469	.1446	.1423	.1401	.1379
1.1	.1357	.1335	.1314	.1292	.1271	.1251	.1230	.1210	.1190	.1170
1.2	.1151	.1131	.1112	.1093	.1075	.1056	.1038	.1020	.1003	.0985
1.3	.0968	.0951	.0934	.0918	.0901	.0885	.0869	.0853	.0838	.0823
1.4	.0808	.0793	.0778	.0764	.0749	.0735	.0721	.0708	.0694	.0681
1.5	.0668	.0655	.0643	.0630	.0618	.0606	.0594	.0582	.0571	.0559
1.6	.0548	.0537	.0526	.0516	.0505	.0495	.0485	.0475	.0465	.0455
1.7	.0446	.0436	.0427	.0418	.0409	.0401	.0392	.0384	.0375	.0367
1.8	.0359	.0351	.0344	.0336	.0329	.0322	.0314	.0307	.0301	.0294
1.9	.0287	.0281	.0274	.0268	.0262	.0256	.0250	.0244	.0239	.0233
2.0	.0228	.0222	.0217	.0212	.0207	.0202	.0197	.0192	.0188	.0183
2.1	.0179	.0174	.0170	.0166	.0162	.0158	.0154	.0150	.0146	.0143
2.2	.0139	.0136	.0132	.0129	.0125	.0122	.0119	.0116	.0113	.0110
2.3	.0107	.0104	.0102	.0099	.0096	.0094	.0091	.0089	.0087	.0084
2.4	.0082	.0080	.0078	.0075	.0073	.0071	.0069	.0068	.0066	.0064
2.5	.0062	.0060	.0059	.0057	.0055	.0054	.0052	.0051	.0049	.0048
2.6	.0047	.0045	.0044	.0043	.0041	.0040	.0039	.0038	.0037	.0036
2.7	.0035	.0034	.0033	.0032	.0031	.0030	.0029	.0028	.0027	.0026
2.8	.0026	.0025	.0024	.0023	.0023	.0022	.0021	.0021	.0020	.0019
2.9	.0019	.0018	.0018	.0017	.0016	.0016	.0015	.0015	.0014	.0014
3.0	.0013	.0013	.0013	.0012	.0012	.0011	.0011	.0011	.0010	.0010

표 A.3: t 분포표; $\Pr[T > t_\alpha]$ 

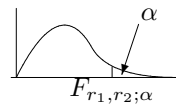
df	0.2	0.1	0.05	0.025	0.01	0.005	0.001	0.0005
1	1.3764	3.0777	6.3138	12.7062	31.8205	63.6567	318.3088	636.6192
2	1.0607	1.8856	2.9200	4.3027	6.9646	9.9248	22.3271	31.5991
3	0.9785	1.6377	2.3534	3.1824	4.5407	5.8409	10.2145	12.9240
4	0.9410	1.5332	2.1318	2.7764	3.7470	4.6041	7.1732	8.6103
5	0.9195	1.4759	2.0150	2.5706	3.3649	4.0322	5.8934	6.8688
6	0.9057	1.4398	1.9432	2.4469	3.1427	3.7074	5.2076	5.9588
7	0.8960	1.4149	1.8946	2.3646	2.9980	3.4995	4.7853	5.4079
8	0.8889	1.3968	1.8595	2.3060	2.8965	3.3554	4.5008	5.0413
9	0.8834	1.3830	1.8331	2.2622	2.8214	3.2498	4.2968	4.7809
10	0.8791	1.3722	1.8125	2.2281	2.7638	3.1693	4.1437	4.5869
11	0.8755	1.3634	1.7959	2.2010	2.7181	3.1058	4.0247	4.4370
12	0.8726	1.3562	1.7823	2.1788	2.6810	3.0545	3.9296	4.3178
13	0.8702	1.3502	1.7709	2.1604	2.6503	3.0123	3.8520	4.2208
14	0.8681	1.3450	1.7613	2.1448	2.6245	2.9768	3.7874	4.1405
15	0.8662	1.3406	1.7531	2.1314	2.6025	2.9467	3.7328	4.0728
16	0.8647	1.3368	1.7459	2.1199	2.5835	2.9208	3.6862	4.0150
17	0.8633	1.3334	1.7396	2.1098	2.5669	2.8982	3.6458	3.9651
18	0.8620	1.3304	1.7341	2.1009	2.5524	2.8784	3.6105	3.9216
19	0.8610	1.3277	1.7291	2.0930	2.5395	2.8609	3.5794	3.8834
20	0.8600	1.3253	1.7247	2.0860	2.5280	2.8453	3.5518	3.8495
21	0.8591	1.3232	1.7207	2.0796	2.5176	2.8314	3.5272	3.8193
22	0.8583	1.3212	1.7171	2.0739	2.5083	2.8188	3.5050	3.7921
23	0.8575	1.3195	1.7139	2.0687	2.4999	2.8073	3.4850	3.7676
24	0.8569	1.3178	1.7109	2.0639	2.4922	2.7969	3.4668	3.7454
25	0.8562	1.3163	1.7081	2.0595	2.4851	2.7874	3.4502	3.7251
26	0.8557	1.3150	1.7056	2.0555	2.4786	2.7787	3.4350	3.7066
27	0.8551	1.3137	1.7033	2.0518	2.4727	2.7707	3.4210	3.6896
28	0.8546	1.3125	1.7011	2.0484	2.4671	2.7633	3.4082	3.6739
29	0.8542	1.3114	1.6991	2.0452	2.4620	2.7564	3.3962	3.6594
30	0.8538	1.3104	1.6973	2.0423	2.4573	2.7500	3.3852	3.6460
40	0.8507	1.3031	1.6839	2.0211	2.4233	2.7045	3.3069	3.5510
50	0.8489	1.2987	1.6759	2.0086	2.4033	2.6778	3.2614	3.4960
100	0.8452	1.2901	1.6602	1.9840	2.3642	2.6259	3.1737	3.3905
∞	0.8416	1.2816	1.6449	1.9600	2.3263	2.5758	3.0902	3.2905

표 A.4: χ^2 분포표; $\Pr[X > \chi_\alpha^2]$ 

df	α							
	0.9995	0.999	0.995	0.99	0.975	0.95	0.900	0.800
1	0.000	0.000	0.000	0.000	0.001	0.004	0.016	0.064
2	0.001	0.002	0.010	0.020	0.051	0.103	0.211	0.446
3	0.015	0.024	0.072	0.115	0.216	0.352	0.584	1.005
4	0.064	0.091	0.207	0.297	0.484	0.711	1.064	1.649
5	0.158	0.210	0.412	0.554	0.831	1.145	1.610	2.343
6	0.299	0.381	0.676	0.872	1.237	1.635	2.204	3.070
7	0.485	0.598	0.989	1.239	1.690	2.167	2.833	3.822
8	0.710	0.857	1.344	1.646	2.180	2.733	3.490	4.594
9	0.972	1.152	1.735	2.088	2.700	3.325	4.168	5.380
10	1.265	1.479	2.156	2.558	3.247	3.940	4.865	6.179
11	1.587	1.834	2.603	3.053	3.816	4.575	5.578	6.989
12	1.934	2.214	3.074	3.571	4.404	5.226	6.304	7.807
13	2.305	2.617	3.565	4.107	5.009	5.892	7.042	8.634
14	2.697	3.041	4.075	4.660	5.629	6.571	7.790	9.467
15	3.108	3.483	4.601	5.229	6.262	7.261	8.547	10.307
16	3.536	3.942	5.142	5.812	6.908	7.962	9.312	11.152
17	3.980	4.416	5.697	6.408	7.564	8.672	10.085	12.002
18	4.439	4.905	6.265	7.015	8.231	9.390	10.865	12.857
19	4.912	5.407	6.844	7.633	8.907	10.117	11.651	13.716
20	5.398	5.921	7.434	8.260	9.591	10.851	12.443	14.578
21	5.896	6.447	8.034	8.897	10.283	11.591	13.240	15.445
22	6.404	6.983	8.643	9.542	10.982	12.338	14.041	16.314
23	6.924	7.529	9.260	10.196	11.689	13.091	14.848	17.187
24	7.453	8.085	9.886	10.856	12.401	13.848	15.659	18.062
25	7.991	8.649	10.520	11.524	13.120	14.611	16.473	18.940
26	8.538	9.222	11.160	12.198	13.844	15.379	17.292	19.820
27	9.093	9.803	11.808	12.879	14.573	16.151	18.114	20.703
28	9.656	10.391	12.461	13.565	15.308	16.928	18.939	21.588
29	10.227	10.986	13.121	14.256	16.047	17.708	19.768	22.475
30	10.804	11.588	13.787	14.953	16.791	18.493	20.599	23.364
40	16.906	17.916	20.707	22.164	24.433	26.509	29.051	32.345
50	23.461	24.674	27.991	29.707	32.357	34.764	37.689	41.449
60	30.340	31.738	35.534	37.485	40.482	43.188	46.459	50.641
70	37.467	39.036	43.275	45.442	48.758	51.739	55.329	59.898
80	44.791	46.520	51.172	53.540	57.153	60.391	64.278	69.207
100	59.896	61.918	67.328	70.065	74.222	77.929	82.358	87.945

표 A.5: χ^2 분포표; $\Pr[X > \chi_\alpha^2]$

df	α							
	0.200	0.100	0.050	0.025	0.010	0.005	0.001	0.0005
1	1.642	2.706	3.841	5.024	6.635	7.879	10.828	12.116
2	3.219	4.605	5.991	7.378	9.210	10.597	13.816	15.202
3	4.642	6.251	7.815	9.348	11.345	12.838	16.266	17.730
4	5.989	7.779	9.488	11.143	13.277	14.860	18.467	19.997
5	7.289	9.236	11.070	12.833	15.086	16.750	20.515	22.105
6	8.558	10.645	12.592	14.449	16.812	18.548	22.458	24.103
7	9.803	12.017	14.067	16.013	18.475	20.278	24.322	26.018
8	11.030	13.362	15.507	17.535	20.090	21.955	26.124	27.868
9	12.242	14.684	16.919	19.023	21.666	23.589	27.877	29.666
10	13.442	15.987	18.307	20.483	23.209	25.188	29.588	31.420
11	14.631	17.275	19.675	21.920	24.725	26.757	31.264	33.137
12	15.812	18.549	21.026	23.337	26.217	28.300	32.909	34.821
13	16.985	19.812	22.362	24.736	27.688	29.819	34.528	36.478
14	18.151	21.064	23.685	26.119	29.141	31.319	36.123	38.109
15	19.311	22.307	24.996	27.488	30.578	32.801	37.697	39.719
16	20.465	23.542	26.296	28.845	32.000	34.267	39.252	41.308
17	21.615	24.769	27.587	30.191	33.409	35.718	40.790	42.879
18	22.760	25.989	28.869	31.526	34.805	37.156	42.312	44.434
19	23.900	27.204	30.144	32.852	36.191	38.582	43.820	45.973
20	25.038	28.412	31.410	34.170	37.566	39.997	45.315	47.498
21	26.171	29.615	32.671	35.479	38.932	41.401	46.797	49.011
22	27.301	30.813	33.924	36.781	40.289	42.796	48.268	50.511
23	28.429	32.007	35.172	38.076	41.638	44.181	49.728	52.000
24	29.553	33.196	36.415	39.364	42.980	45.559	51.179	53.479
25	30.675	34.382	37.652	40.646	44.314	46.928	52.620	54.947
26	31.795	35.563	38.885	41.923	45.642	48.290	54.052	56.407
27	32.912	36.741	40.113	43.195	46.963	49.645	55.476	57.858
28	34.027	37.916	41.337	44.461	48.278	50.993	56.892	59.300
29	35.139	39.087	42.557	45.722	49.588	52.336	58.301	60.735
30	36.250	40.256	43.773	46.979	50.892	53.672	59.703	62.162
40	47.269	51.805	55.758	59.342	63.691	66.766	73.402	76.095
50	58.164	63.167	67.505	71.420	76.154	79.490	86.661	89.561
60	68.972	74.397	79.082	83.298	88.379	91.952	99.607	102.695
70	79.715	85.527	90.531	95.023	100.425	104.215	112.317	115.578
80	90.405	96.578	101.879	106.629	112.329	116.321	124.839	128.261
100	111.667	118.498	124.342	129.561	135.807	140.169	149.449	153.167

표 A.6: F 분포표; $F_{r_1, r_2; 0.1}$ 값: $\Pr[F > F_{r_1, r_2; 0.1}] = 0.1$ 

r_2	분자 자유도(r_1)									
	1	2	3	4	5	6	7	8	9	10
1	39.86	49.50	53.59	55.83	57.24	58.20	58.91	59.44	59.86	60.19
2	8.53	9.00	9.16	9.24	9.29	9.33	9.35	9.37	9.38	9.39
3	5.54	5.46	5.39	5.34	5.31	5.28	5.27	5.25	5.24	5.23
4	4.54	4.32	4.19	4.11	4.05	4.01	3.98	3.95	3.94	3.92
5	4.06	3.78	3.62	3.52	3.45	3.40	3.37	3.34	3.32	3.30
6	3.78	3.46	3.29	3.18	3.11	3.05	3.01	2.98	2.96	2.94
7	3.59	3.26	3.07	2.96	2.88	2.83	2.78	2.75	2.72	2.70
8	3.46	3.11	2.92	2.81	2.73	2.67	2.62	2.59	2.56	2.54
9	3.36	3.01	2.81	2.69	2.61	2.55	2.51	2.47	2.44	2.42
10	3.29	2.92	2.73	2.61	2.52	2.46	2.41	2.38	2.35	2.32
11	3.23	2.86	2.66	2.54	2.45	2.39	2.34	2.30	2.27	2.25
12	3.18	2.81	2.61	2.48	2.39	2.33	2.28	2.24	2.21	2.19
13	3.14	2.76	2.56	2.43	2.35	2.28	2.23	2.20	2.16	2.14
14	3.10	2.73	2.52	2.39	2.31	2.24	2.19	2.15	2.12	2.10
15	3.07	2.70	2.49	2.36	2.27	2.21	2.16	2.12	2.09	2.06
16	3.05	2.67	2.46	2.33	2.24	2.18	2.13	2.09	2.06	2.03
17	3.03	2.64	2.44	2.31	2.22	2.15	2.10	2.06	2.03	2.00
18	3.01	2.62	2.42	2.29	2.20	2.13	2.08	2.04	2.00	1.98
19	2.99	2.61	2.40	2.27	2.18	2.11	2.06	2.02	1.98	1.96
20	2.97	2.59	2.38	2.25	2.16	2.09	2.04	2.00	1.96	1.94
21	2.96	2.57	2.36	2.23	2.14	2.08	2.02	1.98	1.95	1.92
22	2.95	2.56	2.35	2.22	2.13	2.06	2.01	1.97	1.93	1.90
23	2.94	2.55	2.34	2.21	2.11	2.05	1.99	1.95	1.92	1.89
24	2.93	2.54	2.33	2.19	2.10	2.04	1.98	1.94	1.91	1.88
25	2.92	2.53	2.32	2.18	2.09	2.02	1.97	1.93	1.89	1.87
26	2.91	2.52	2.31	2.17	2.08	2.01	1.96	1.92	1.88	1.86
27	2.90	2.51	2.30	2.17	2.07	2.00	1.95	1.91	1.87	1.85
28	2.89	2.50	2.29	2.16	2.06	2.00	1.94	1.90	1.87	1.84
29	2.89	2.50	2.28	2.15	2.06	1.99	1.93	1.89	1.86	1.83
30	2.88	2.49	2.28	2.14	2.05	1.98	1.93	1.88	1.85	1.82
40	2.84	2.44	2.23	2.09	2.00	1.93	1.87	1.83	1.79	1.76
50	2.81	2.41	2.20	2.06	1.97	1.90	1.84	1.80	1.76	1.73
60	2.79	2.39	2.18	2.04	1.95	1.87	1.82	1.77	1.74	1.71
70	2.78	2.38	2.16	2.03	1.93	1.86	1.80	1.76	1.72	1.69
80	2.77	2.37	2.15	2.02	1.92	1.85	1.79	1.75	1.71	1.68
90	2.76	2.36	2.15	2.01	1.91	1.84	1.78	1.74	1.70	1.67
100	2.76	2.36	2.14	2.00	1.91	1.83	1.78	1.73	1.69	1.66
120	2.75	2.35	2.13	1.99	1.90	1.82	1.77	1.72	1.68	1.65

표 A.7: F 분포표; $F_{r_1, r_2; 0.1}$ 값: $\Pr[F > F_{r_1, r_2; 0.1}] = 0.1$

r_2	분자 자유도(r_1)										
	11	12	13	14	15	20	25	30	40	80	120
1	60.47	60.71	60.90	61.07	61.22	61.74	62.05	62.26	62.53	62.93	63.06
2	9.40	9.41	9.41	9.42	9.42	9.44	9.45	9.46	9.47	9.48	9.48
3	5.22	5.22	5.21	5.20	5.20	5.18	5.17	5.17	5.16	5.15	5.14
4	3.91	3.90	3.89	3.88	3.87	3.84	3.83	3.82	3.80	3.78	3.78
5	3.28	3.27	3.26	3.25	3.24	3.21	3.19	3.17	3.16	3.13	3.12
6	2.92	2.90	2.89	2.88	2.87	2.84	2.81	2.80	2.78	2.75	2.74
7	2.68	2.67	2.65	2.64	2.63	2.59	2.57	2.56	2.54	2.50	2.49
8	2.52	2.50	2.49	2.48	2.46	2.42	2.40	2.38	2.36	2.33	2.32
9	2.40	2.38	2.36	2.35	2.34	2.30	2.27	2.25	2.23	2.20	2.18
10	2.30	2.28	2.27	2.26	2.24	2.20	2.17	2.16	2.13	2.09	2.08
11	2.23	2.21	2.19	2.18	2.17	2.12	2.10	2.08	2.05	2.01	2.00
12	2.17	2.15	2.13	2.12	2.10	2.06	2.03	2.01	1.99	1.95	1.93
13	2.12	2.10	2.08	2.07	2.05	2.01	1.98	1.96	1.93	1.89	1.88
14	2.07	2.05	2.04	2.02	2.01	1.96	1.93	1.91	1.89	1.84	1.83
15	2.04	2.02	2.00	1.99	1.97	1.92	1.89	1.87	1.85	1.80	1.79
16	2.01	1.99	1.97	1.95	1.94	1.89	1.86	1.84	1.81	1.77	1.75
17	1.98	1.96	1.94	1.93	1.91	1.86	1.83	1.81	1.78	1.74	1.72
18	1.95	1.93	1.92	1.90	1.89	1.84	1.80	1.78	1.75	1.71	1.69
19	1.93	1.91	1.89	1.88	1.86	1.81	1.78	1.76	1.73	1.68	1.67
20	1.91	1.89	1.87	1.86	1.84	1.79	1.76	1.74	1.71	1.66	1.64
21	1.90	1.87	1.86	1.84	1.83	1.78	1.74	1.72	1.69	1.64	1.62
22	1.88	1.86	1.84	1.83	1.81	1.76	1.73	1.70	1.67	1.62	1.60
23	1.87	1.84	1.83	1.81	1.80	1.74	1.71	1.69	1.66	1.61	1.59
24	1.85	1.83	1.81	1.80	1.78	1.73	1.70	1.67	1.64	1.59	1.57
25	1.84	1.82	1.80	1.79	1.77	1.72	1.68	1.66	1.63	1.58	1.56
26	1.83	1.81	1.79	1.77	1.76	1.71	1.67	1.65	1.61	1.56	1.54
27	1.82	1.80	1.78	1.76	1.75	1.70	1.66	1.64	1.60	1.55	1.53
28	1.81	1.79	1.77	1.75	1.74	1.69	1.65	1.63	1.59	1.54	1.52
29	1.80	1.78	1.76	1.75	1.73	1.68	1.64	1.62	1.58	1.53	1.51
30	1.79	1.77	1.75	1.74	1.72	1.67	1.63	1.61	1.57	1.52	1.50
40	1.74	1.71	1.70	1.68	1.66	1.61	1.57	1.54	1.51	1.45	1.42
50	1.70	1.68	1.66	1.64	1.63	1.57	1.53	1.50	1.46	1.40	1.38
60	1.68	1.66	1.64	1.62	1.60	1.54	1.50	1.48	1.44	1.37	1.35
70	1.66	1.64	1.62	1.60	1.59	1.53	1.49	1.46	1.42	1.35	1.32
80	1.65	1.63	1.61	1.59	1.57	1.51	1.47	1.44	1.40	1.33	1.31
90	1.64	1.62	1.60	1.58	1.56	1.50	1.46	1.43	1.39	1.32	1.29
100	1.64	1.61	1.59	1.57	1.56	1.49	1.45	1.42	1.38	1.31	1.28
120	1.63	1.60	1.58	1.56	1.55	1.48	1.44	1.41	1.37	1.29	1.26

표 A.8: F 분포표; $F_{r_1, r_2; 0.05}$ 값: $\Pr[F > F_{r_1, r_2; 0.05}] = 0.05$

r_2	분자 자유도(r_1)									
	1	2	3	4	5	6	7	8	9	10
1	161.5	199.5	215.7	224.6	230.2	233.0	236.8	238.9	240.5	241.98
2	18.51	19.00	19.16	19.25	19.30	19.33	19.35	19.37	19.38	19.40
3	10.13	9.55	9.28	9.12	9.01	8.94	8.89	8.85	8.81	8.79
4	7.71	6.94	6.59	6.39	6.26	6.16	6.09	6.04	6.00	5.96
5	6.61	5.79	5.41	5.19	5.05	4.95	4.88	4.82	4.77	4.74
6	5.99	5.14	4.76	4.53	4.39	4.28	4.21	4.15	4.10	4.06
7	5.59	4.74	4.35	4.12	3.97	3.87	3.79	3.73	3.68	3.64
8	5.32	4.46	4.07	3.84	3.69	3.58	3.50	3.44	3.39	3.35
9	5.12	4.26	3.86	3.63	3.48	3.37	3.29	3.23	3.18	3.14
10	4.96	4.10	3.71	3.48	3.33	3.22	3.14	3.07	3.02	2.98
11	4.84	3.98	3.59	3.36	3.20	3.09	3.01	2.95	2.90	2.85
12	4.75	3.89	3.49	3.26	3.11	3.00	2.91	2.85	2.80	2.75
13	4.67	3.81	3.41	3.18	3.03	2.92	2.83	2.77	2.71	2.67
14	4.60	3.74	3.34	3.11	2.96	2.85	2.76	2.70	2.65	2.60
15	4.54	3.68	3.29	3.06	2.90	2.79	2.71	2.64	2.59	2.54
16	4.49	3.63	3.24	3.01	2.85	2.74	2.66	2.59	2.54	2.49
17	4.45	3.59	3.20	2.96	2.81	2.70	2.61	2.55	2.49	2.45
18	4.41	3.55	3.16	2.93	2.77	2.66	2.58	2.51	2.46	2.41
19	4.38	3.52	3.13	2.90	2.74	2.63	2.54	2.48	2.42	2.38
20	4.35	3.49	3.10	2.87	2.71	2.60	2.51	2.45	2.39	2.35
21	4.32	3.47	3.07	2.84	2.68	2.57	2.49	2.42	2.37	2.32
22	4.30	3.44	3.05	2.82	2.66	2.55	2.46	2.40	2.34	2.30
23	4.28	3.42	3.03	2.80	2.64	2.53	2.44	2.37	2.32	2.27
24	4.26	3.40	3.01	2.78	2.62	2.51	2.42	2.36	2.30	2.25
25	4.24	3.39	2.99	2.76	2.60	2.49	2.40	2.34	2.28	2.24
26	4.23	3.37	2.98	2.74	2.59	2.47	2.39	2.32	2.27	2.22
27	4.21	3.35	2.96	2.73	2.57	2.46	2.37	2.31	2.25	2.20
28	4.20	3.34	2.95	2.71	2.56	2.45	2.36	2.29	2.24	2.19
29	4.18	3.33	2.93	2.70	2.55	2.43	2.35	2.28	2.22	2.18
30	4.17	3.32	2.92	2.69	2.53	2.42	2.33	2.27	2.21	2.16
40	4.08	3.23	2.84	2.61	2.45	2.34	2.25	2.18	2.12	2.08
50	4.03	3.18	2.79	2.56	2.40	2.29	2.20	2.13	2.07	2.03
60	4.00	3.15	2.76	2.53	2.37	2.25	2.17	2.10	2.04	1.99
70	3.98	3.13	2.74	2.50	2.35	2.23	2.14	2.07	2.02	1.97
80	3.96	3.11	2.72	2.49	2.33	2.21	2.13	2.06	2.00	1.95
90	3.95	3.10	2.71	2.47	2.32	2.20	2.11	2.04	1.99	1.94
100	3.94	3.09	2.70	2.46	2.31	2.19	2.10	2.03	1.97	1.93
120	3.92	3.07	2.68	2.45	2.29	2.18	2.09	2.02	1.96	1.91

표 A.9: F 분포표; $F_{r_1, r_2; 0.05}$ 값: $\Pr[F > F_{r_1, r_2; 0.05}] = 0.05$

r_2	분자 자유도(r_1)										
	11	12	13	14	15	20	25	30	40	80	120
1	243.0	243.9	244.7	245.4	246.0	248.0	249.3	250.1	251.1	252.7	253.3
2	19.40	19.41	19.42	19.42	19.43	19.45	19.46	19.46	19.47	19.48	19.49
3	8.76	8.74	8.73	8.71	8.70	8.66	8.63	8.62	8.59	8.56	8.55
4	5.94	5.91	5.89	5.87	5.86	5.80	5.77	5.75	5.72	5.67	5.66
5	4.70	4.68	4.66	4.64	4.62	4.56	4.52	4.50	4.46	4.41	4.40
6	4.03	4.00	3.98	3.96	3.94	3.87	3.83	3.81	3.77	3.72	3.70
7	3.60	3.57	3.55	3.53	3.51	3.44	3.40	3.38	3.34	3.29	3.27
8	3.31	3.28	3.26	3.24	3.22	3.15	3.11	3.08	3.04	2.99	2.97
9	3.10	3.07	3.05	3.03	3.01	2.94	2.89	2.86	2.83	2.77	2.75
10	2.94	2.91	2.89	2.86	2.85	2.77	2.73	2.70	2.66	2.60	2.58
11	2.82	2.79	2.76	2.74	2.72	2.65	2.60	2.57	2.53	2.47	2.45
12	2.72	2.69	2.66	2.64	2.62	2.54	2.50	2.47	2.43	2.36	2.34
13	2.63	2.60	2.58	2.55	2.53	2.46	2.41	2.38	2.34	2.27	2.25
14	2.57	2.53	2.51	2.48	2.46	2.39	2.34	2.31	2.27	2.20	2.18
15	2.51	2.48	2.45	2.42	2.40	2.33	2.28	2.25	2.20	2.14	2.11
16	2.46	2.42	2.40	2.37	2.35	2.28	2.23	2.19	2.15	2.08	2.06
17	2.41	2.38	2.35	2.33	2.31	2.23	2.18	2.15	2.10	2.03	2.01
18	2.37	2.34	2.31	2.29	2.27	2.19	2.14	2.11	2.06	1.99	1.97
19	2.34	2.31	2.28	2.26	2.23	2.16	2.11	2.07	2.03	1.96	1.93
20	2.31	2.28	2.25	2.22	2.20	2.12	2.07	2.04	1.99	1.92	1.90
21	2.28	2.25	2.22	2.20	2.18	2.10	2.05	2.01	1.96	1.89	1.87
22	2.26	2.23	2.20	2.17	2.15	2.07	2.02	1.98	1.94	1.86	1.84
23	2.24	2.20	2.18	2.15	2.13	2.05	2.00	1.96	1.91	1.84	1.81
24	2.22	2.18	2.15	2.13	2.11	2.03	1.97	1.94	1.89	1.82	1.79
25	2.20	2.16	2.14	2.11	2.09	2.01	1.96	1.92	1.87	1.80	1.77
26	2.18	2.15	2.12	2.09	2.07	1.99	1.94	1.90	1.85	1.78	1.75
27	2.17	2.13	2.10	2.08	2.06	1.97	1.92	1.88	1.84	1.76	1.73
28	2.15	2.12	2.09	2.06	2.04	1.96	1.91	1.87	1.82	1.74	1.71
29	2.14	2.10	2.08	2.05	2.03	1.94	1.89	1.85	1.81	1.73	1.70
30	2.13	2.09	2.06	2.04	2.01	1.93	1.88	1.84	1.79	1.71	1.68
40	2.04	2.00	1.97	1.95	1.92	1.84	1.78	1.74	1.69	1.61	1.58
50	1.99	1.95	1.92	1.89	1.87	1.78	1.73	1.69	1.63	1.54	1.51
60	1.95	1.92	1.89	1.86	1.84	1.75	1.69	1.65	1.59	1.50	1.47
70	1.93	1.89	1.86	1.84	1.81	1.72	1.66	1.62	1.57	1.47	1.44
80	1.91	1.88	1.84	1.82	1.79	1.70	1.64	1.60	1.54	1.45	1.41
90	1.90	1.86	1.83	1.80	1.78	1.69	1.63	1.59	1.53	1.43	1.39
100	1.89	1.85	1.82	1.79	1.77	1.68	1.62	1.57	1.52	1.41	1.38
120	1.87	1.83	1.80	1.78	1.75	1.66	1.60	1.55	1.50	1.39	1.35

표 A.10: F 분포표; $F_{r_1, r_2; 0.025}$ 값: $\Pr[F > F_{r_1, r_2; 0.025}] = 0.025$

r_2	분자 자유도(r_1)									
	1	2	3	4	5	6	7	8	9	10
1	647.79	799.50	864.16	899.58	921.85	937.11	948.22	956.66	963.28	968.63
2	38.51	39.00	39.17	39.25	39.30	39.33	39.36	39.37	39.39	39.40
3	17.44	16.04	15.44	15.10	14.88	14.73	14.62	14.54	14.47	14.42
4	12.22	10.65	9.98	9.60	9.36	9.20	9.07	8.98	8.90	8.84
5	10.01	8.43	7.76	7.39	7.15	6.98	6.85	6.76	6.68	6.62
6	8.81	7.26	6.60	6.23	5.99	5.82	5.70	5.60	5.52	5.46
7	8.07	6.54	5.89	5.52	5.29	5.12	4.99	4.90	4.82	4.76
8	7.57	6.06	5.42	5.05	4.82	4.65	4.53	4.43	4.36	4.30
9	7.21	5.71	5.08	4.72	4.48	4.32	4.20	4.10	4.03	3.96
10	6.94	5.46	4.83	4.47	4.24	4.07	3.95	3.85	3.78	3.72
11	6.72	5.26	4.63	4.28	4.04	3.88	3.76	3.66	3.59	3.53
12	6.55	5.10	4.47	4.12	3.89	3.73	3.61	3.51	3.44	3.37
13	6.41	4.97	4.35	4.00	3.77	3.60	3.48	3.39	3.31	3.25
14	6.30	4.86	4.24	3.89	3.66	3.50	3.38	3.29	3.21	3.15
15	6.20	4.77	4.15	3.80	3.58	3.41	3.29	3.20	3.12	3.06
16	6.12	4.69	4.08	3.73	3.50	3.34	3.22	3.12	3.05	2.99
17	6.04	4.62	4.01	3.66	3.44	3.28	3.16	3.06	2.98	2.92
18	5.98	4.56	3.95	3.61	3.38	3.22	3.10	3.01	2.93	2.87
19	5.92	4.51	3.90	3.56	3.33	3.17	3.05	2.96	2.88	2.82
20	5.87	4.46	3.86	3.51	3.29	3.13	3.01	2.91	2.84	2.77
21	5.83	4.42	3.82	3.48	3.25	3.09	2.97	2.87	2.80	2.73
22	5.79	4.38	3.78	3.44	3.22	3.05	2.93	2.84	2.76	2.70
23	5.75	4.35	3.75	3.41	3.18	3.02	2.90	2.81	2.73	2.67
24	5.72	4.32	3.72	3.38	3.15	2.99	2.87	2.78	2.70	2.64
25	5.69	4.29	3.69	3.35	3.13	2.97	2.85	2.75	2.68	2.61
26	5.66	4.27	3.67	3.33	3.10	2.94	2.82	2.73	2.65	2.59
27	5.63	4.24	3.65	3.31	3.08	2.92	2.80	2.71	2.63	2.57
28	5.61	4.22	3.63	3.29	3.06	2.90	2.78	2.69	2.61	2.55
29	5.59	4.20	3.61	3.27	3.04	2.88	2.76	2.67	2.59	2.53
30	5.57	4.18	3.59	3.25	3.03	2.87	2.75	2.65	2.57	2.51
40	5.42	4.05	3.46	3.13	2.90	2.74	2.62	2.53	2.45	2.39
50	5.34	3.97	3.39	3.05	2.83	2.67	2.55	2.46	2.38	2.32
60	5.29	3.93	3.34	3.01	2.79	2.63	2.51	2.41	2.33	2.27
70	5.25	3.89	3.31	2.97	2.75	2.59	2.47	2.38	2.30	2.24
80	5.22	3.86	3.28	2.95	2.73	2.57	2.45	2.35	2.28	2.21
90	5.20	3.84	3.26	2.93	2.71	2.55	2.43	2.34	2.26	2.19
100	5.18	3.83	3.25	2.92	2.70	2.54	2.42	2.32	2.24	2.18
120	5.15	3.80	3.23	2.89	2.67	2.52	2.39	2.30	2.22	2.16

표 A.11: F 분포표; $F_{r_1, r_2; 0.025}$ 값: $\Pr[F > F_{r_1, r_2; 0.025}] = 0.025$

	분자 자유도(r_1)										
	11	12	13	14	15	20	25	30	40	80	120
1	973.0	976.7	979.8	982.5	984.9	993.1	998.1	1001.4	1005.6	1011.9	1014.0
2	39.41	39.41	39.42	39.43	39.43	39.45	39.46	39.46	39.47	39.49	39.49
3	14.37	14.34	14.30	14.28	14.25	14.17	14.12	14.08	14.04	13.97	13.95
4	8.79	8.75	8.71	8.68	8.66	8.56	8.50	8.46	8.41	8.33	8.31
5	6.57	6.52	6.49	6.46	6.43	6.33	6.27	6.23	6.18	6.10	6.07
6	5.41	5.37	5.33	5.30	5.27	5.17	5.11	5.07	5.01	4.93	4.90
7	4.71	4.67	4.63	4.60	4.57	4.47	4.40	4.36	4.31	4.23	4.20
8	4.24	4.20	4.16	4.13	4.10	4.00	3.94	3.89	3.84	3.76	3.73
9	3.91	3.87	3.83	3.80	3.77	3.67	3.60	3.56	3.51	3.42	3.39
10	3.66	3.62	3.58	3.55	3.52	3.42	3.35	3.31	3.26	3.17	3.14
11	3.47	3.43	3.39	3.36	3.33	3.23	3.16	3.12	3.06	2.97	2.94
12	3.32	3.28	3.24	3.21	3.18	3.07	3.01	2.96	2.91	2.82	2.79
13	3.20	3.15	3.12	3.08	3.05	2.95	2.88	2.84	2.78	2.69	2.66
14	3.09	3.05	3.01	2.98	2.95	2.84	2.78	2.73	2.67	2.58	2.55
15	3.01	2.96	2.92	2.89	2.86	2.76	2.69	2.64	2.59	2.49	2.46
16	2.93	2.89	2.85	2.82	2.79	2.68	2.61	2.57	2.51	2.42	2.38
17	2.87	2.82	2.79	2.75	2.72	2.62	2.55	2.50	2.44	2.35	2.32
18	2.81	2.77	2.73	2.70	2.67	2.56	2.49	2.44	2.38	2.29	2.26
19	2.76	2.72	2.68	2.65	2.62	2.51	2.44	2.39	2.33	2.24	2.20
20	2.72	2.68	2.64	2.60	2.57	2.46	2.40	2.35	2.29	2.19	2.16
21	2.68	2.64	2.60	2.56	2.53	2.42	2.36	2.31	2.25	2.15	2.11
22	2.65	2.60	2.56	2.53	2.50	2.39	2.32	2.27	2.21	2.11	2.08
23	2.62	2.57	2.53	2.50	2.47	2.36	2.29	2.24	2.18	2.08	2.04
24	2.59	2.54	2.50	2.47	2.44	2.33	2.26	2.21	2.15	2.05	2.01
25	2.56	2.51	2.48	2.44	2.41	2.30	2.23	2.18	2.12	2.02	1.98
26	2.54	2.49	2.45	2.42	2.39	2.28	2.21	2.16	2.09	1.99	1.95
27	2.51	2.47	2.43	2.39	2.36	2.25	2.18	2.13	2.07	1.97	1.93
28	2.49	2.45	2.41	2.37	2.34	2.23	2.16	2.11	2.05	1.94	1.91
29	2.48	2.43	2.39	2.36	2.32	2.21	2.14	2.09	2.03	1.92	1.89
30	2.46	2.41	2.37	2.34	2.31	2.20	2.12	2.07	2.01	1.90	1.87
40	2.33	2.29	2.25	2.21	2.18	2.07	1.99	1.94	1.88	1.76	1.72
50	2.26	2.22	2.18	2.14	2.11	1.99	1.92	1.87	1.80	1.68	1.64
60	2.22	2.17	2.13	2.09	2.06	1.94	1.87	1.82	1.74	1.63	1.58
70	2.18	2.14	2.10	2.06	2.03	1.91	1.83	1.78	1.71	1.59	1.54
80	2.16	2.11	2.07	2.03	2.00	1.88	1.81	1.75	1.68	1.55	1.51
90	2.14	2.09	2.05	2.02	1.98	1.86	1.79	1.73	1.66	1.53	1.48
100	2.12	2.08	2.04	2.00	1.97	1.85	1.77	1.71	1.64	1.51	1.46
120	2.10	2.05	2.01	1.98	1.94	1.82	1.75	1.69	1.61	1.48	1.43