174 付表

付表 1 正規分布表: $Z \sim N(0,1)$

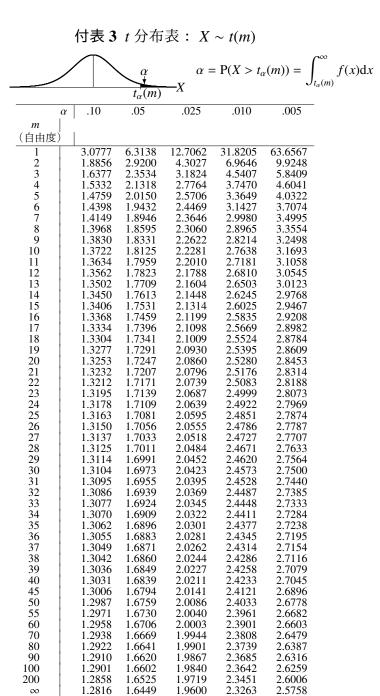
z = -z	a z	$\alpha = P(Z > z_{\alpha}) = \int_{z_{\alpha}}^{\infty} \frac{1}{\sqrt{2\pi}} \exp(-\frac{1}{2}x^2) dx$
--------	-----	--

z_{α}	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
0.0	.5000	.4960	.4920	.4880	.4841	.4801	.4761	.4721	.4681	.4641
0.1	.4602	.4562	.4522	.4483	.4443	.4404	.4364	.4325	.4286	.4247
0.2	.4207	.4168	.4129	.4091	.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	.2644	.2611	.2579	.2546	.2514	.2483	.2451
0.7	.2420	.2389	.2358	.2327	.2297	.2266	.2236	.2207	.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	.1563	.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	.1094	.1075	.1057	.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
3.1	.0010	.0009	.0009	.0009	.0008	.0008	.0008	.0008	.0007	.0007
3.2	.0007	.0007	.0006	.0006	.0006	.0006	.0006	.0005	.0005	.0005
3.3	.0005	.0005	.0005	.0004	.0004	.0004	.0004	.0004	.0004	.0003
3.4	.0003	.0003	.0003	.0003	.0003	.0003	.0003	.0003	.0003	.0002

	.10								
z_{α}	1.2816	1.6449	1.9600	2.3263	2.5758	3.0902	3.2905	3.7190	4.2649

		付表	2 カイ	2 乗分	命表	: X ~	$\chi^2(m$)		
	/			2		2.	C [∞]	,		
	/			X	$\alpha = P($	$X > \chi_{\alpha}^2(n)$	$(i)) = \int_{\chi^2_{\alpha}(i)}$	f(x)dx	:	
	0		χ^2_{α}	(m) Λ						
	α .995	.99	.975	.95	.90	.10	.05	.025	.010	.005
m										
(<u>自由度</u> 1	.0000393	3 .000157	.000982	.00393	3 .0158	2.71	3 8/1	5.02	6.63	7.88
2 3	.0100 .0717	0201	.0506	.103	.211	4.61	3.84 5.99	7.38 9.35	9.21 11.34	10.60
3	.0717	.115 .297 .554 .872	.216	.103 .352 .711	.584	6.25	7.81	9.35	11.34	12.84
4	.207 .412 .676	.297	.484 .831 1.24	115	1.06 1.61 2.20 2.83 3.49 4.17 4.87	7.78	9.49 11.07	11.14 12.83	13.28	14.86 16.75
5 6	.676	.872	1.24	1.15 1.64	2.20	9.24 10.64	12.59	14.45	15.09 16.81	18.55
7	.989	1.24	1.69 2.18	2.17 2.73	2.83	12.02	14.07	16.01 17.53	18.48	20.28
8	.989 1.34 1.73	1.65	2.18	2.73	3.49	13.36	15.51	17.53	20.09	21.95
9 10	2.16	2.09	2.70	3.33	4.17	14.68	16.92	19.02	21.67	23.59 25.19
11	2.60	1.24 1.65 2.09 2.56 3.05 3.57	2.70 3.25 3.82 4.40	4.57	5.58	17.28	16.92 18.31 19.68 21.03 22.36	20.48 21.92 23.34	23.21 24.72	26.76
12	2.60 3.07 3.57	3.57	4.40	5.23	6.30	18.55	21.03	23.34	26.22 27.69	28.30
13	3.57	4 1 1	5.01 5.63	5.89	5.58 6.30 7.04 7.79	19.81	22.36	24.74	27.69	29.82
14 15	4.07 4.60	4.66 5.23	5.03	6.57 7.26	7.79 8.55	21.06	2.2.00	26.12	29.14	31.32 32.80
16	5.14	4.66 5.23 5.81 6.41 7.01	6.26 6.91 7.56	3.33 3.94 4.57 5.23 5.89 6.57 7.26 7.96 8.67 9.39 10.12 10.85 11.59 12.34 13.09 13.85 14.61 15.38 16.15 16.93 17.71 18.49 19.28 20.07 20.87 20.87 21.66 22.47 23.27 24.07 24.07 24.07 25.70 26.51	8.55 9.31 10.09 10.86 11.65 12.44 13.24 14.04	12.02 13.36 14.68 15.99 17.28 18.55 19.81 21.06 22.31 23.54 24.77 25.99 27.20 28.41 29.62 30.81 33.20 34.38 35.56 36.74 37.92 39.09 40.26	25.00 26.30	27.49 28.85	30.58 32.00	34.27
17	5.70	6.41	7.56	8.67	10.09	24.77	27.59	30.19 31.53	33.41	35.72
18	6.26	7.01	8 23	9.39	10.86	25.99	28.87	31.53	34.81	37.16
19 20	6.84 7.43	7.63 8.26	8.91 0.50	10.12	11.65	27.20	30.14 31.41	32.85 34.17	36.19 37.57	38.58 40.00
21	8.03	8.90	8.91 9.59 10.28	11.59	13.24	29.62	32.67	35.48	38.93	41.40
22	8.03 8.64	7.63 8.26 8.90 9.54	10.98	12.34	14.04	30.81	33.92	36.78	40.29	42.80
23 24	9.26 9.89	10.20 10.86 11.52 12.20 12.88 13.56 14.26 14.95 15.66	11.69	13.09	14.85 15.66 16.47 17.29 18.11 18.94 19.77 20.60	32.01	35.17 36.42	38.08 39.36	41.64	44.18
25	9.89	10.86	12.40	13.85	15.66	33.20	36.42 37.65	39.36 40.65	42.98 44.31	45.56 46.93
26	11.16	12.20	13.12	15.38	17.29	35.56	37.65 38.89	40.65 41.92	45.64	48.29
26 27 28	11.81	12.88	14.57	16.15	18.11	36.74	40.11	43.19	46.96 48.28 49.59	49 64
28	12.46	13.56	15.31	16.93	18.94	37.92	41.34	44.46	48.28	50.99
29 30	13.12	14.26 14.05	16.05 16.70	17.71	19.77	39.09 40.26	42.56 43.77	45.72	49.59 50.89	52.34 53.67
31	10.52 11.16 11.81 12.46 13.12 13.79 14.46	15.66	17.54	19.28	21.43	41.42	44.99	48.23	52.19	55.00
31 32	15.13 15.82 16.50	16.36 17.07 17.79 18.51 19.23 19.96 20.69	10.98 11.69 12.40 13.12 13.84 14.57 15.31 16.05 16.79 17.54 18.29 19.05 19.81 20.57 21.34 22.11 22.88 23.65 24.43	20.07	21.43 22.27	41.42 42.58	44.99 46.19	46.98 48.23 49.48	53.49	56.33
33	15.82	17.07	19.05	20.87	23.11	43.75	47.40	50.73	54.78	57.65
34 35	16.50	17.79 18.51	19.81 20.57	21.66	23.11 23.95 24.80 25.64 26.49 27.34 28.20 29.05	44.90 46.06	48.60 49.80	50.73 51.97 53.20	56.06 57.34	58.96 60.27
36	17.19	19.23	21.34	23.27	25.64	47.21 48.36 49.51 50.66	51.00	54 44	58.62	61.58
36 37	18.59	19.96	22.11	24.07	26.49	48.36	51.00 52.19	55.67	58.62 59.89	62.88
38	19.29	20.69	22.88	24.88	27.34	49.51	53.38	56.90	61.16	64.18
39 40	17.19 17.89 18.59 19.29 20.00 20.71	21.43 22.16	23.03	25.70 26.51	28.20 29.05	51.81	53.38 54.57 55.76	55.67 56.90 58.12 59.34	62.43 63.69	65.48 66.77
45	24.31	25.90	28.37	30.61	33.35	57.51	61.66	65.41	69.96	73.17
50	27.99	29.71	32.36	34.76	37.69	63.17	67.50	71.42	76.15	79.49
55	31.73	33.57	36.40	38.96	42.06	68.80	73.31	77.38	82.29	85.75
60 70	35.53 43.25	37.48 45.42	40.48 48.75	43.19 51.74	46.46 55.33	74.40 85.52	79.08 90.53	83.30 95.03	88.38 100.44	91.95 104.24
80	51.14	53.52	57.15	60.39	64.28	96.57	101.88	106.63	112.34	116.35
90	59.17	61.74	65.64	69.13	73.29	107.56	113.14	118.14	124.13	128.32
100	67.30	70.05	74.22	77.93	82.36 128.28	118.49	124.34	129.56	135.82	140.19
150 200	109.12 152.22	112.65 156.42		122.69 168.28	128.28	172.58 226.02	179.58 233.99	185.80 241.06	193.22 249.45	198.38 255.28

付表 176



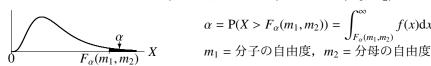
1.9600

2.3263

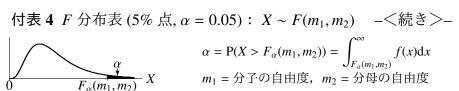
2.5758

1.2816

付表 4 F 分布表 (1% 点, $\alpha = 0.01$): $X \sim F(m_1, m_2)$



4.19 4.10 4.19 4.10 4.19 4.10 4.19 4.10 4.19 4.10 4.19 4.10 4.19 4.10 4.19 4.10 4.19 4.10 4.19 4.10 4.19 4.10 4.19 4.10 11.4 7.785 7.701 7 5.11 5.06 5.06 4.98 4.88 4.85 4.85 4.85 4.75



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28.8.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4.9.5.4
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付表 5 ダービン・ワトソン統計量の 5% 点の上限と下限

New New																																																		
## = 1	13	qn													603	496	305	300	25	128	053	983		859	805	.755	.708	665	625	.588	554	.521	.492	464	458	2017	206	25.75	170	127	.093	.066	.043	024	900	56.0	974	924	908	- 1
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		ηl		-					-).127	175	222	277	227	369	416	1410	504	545	585	.621	657	.691	723	0.753	0.782	0.810	3.836).861	3.885	0.908	0.930).951	0.970	96.1	080	1.007	1.212	1.260	1.301	1.337	1.369	1.397	1.422	2447	24.1	1.608	1.675	
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k' = 1 $k' = 2$ dl dl dl dl dl dl dl dl	K	П				0.296	0.376	0.444	0.512	0.574	0.632	0.685	0.23	0.779	0000	0.04c	20.0	1,000	0.058	0.986	1.013	1.038	1.062	1.084	1.12	1.124	1.143	1.160	1.177	1.193	1.208	1.222	1.236	1.249	1.261	1.2/3	1.205	1.378	1.414	1.444	1.471	1.494	1.515	1.534	1.55	1.266	1.57	1.679	1.728	変数0
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2 000000000000000000000000000000000000	1	qn	-	_	_	_	_	_	_	. —					,			- -	-	-	-				,	_	$\overline{}$	$\overline{}$	$\overline{}$	$\overline{}$	$\overline{}$	_	_ ,	_ ,				, ,	_	\vdash	$\overline{}$	_	— ,		_ ,	- -	92.1	1.74	1.77	票本数
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