

Figure S-1. Asymptotically efficient two-sided power envelopes for invariant similar tests (AEPE) and power envelopes for locally unbiased (LU) invariant similar tests,  $k = 5$

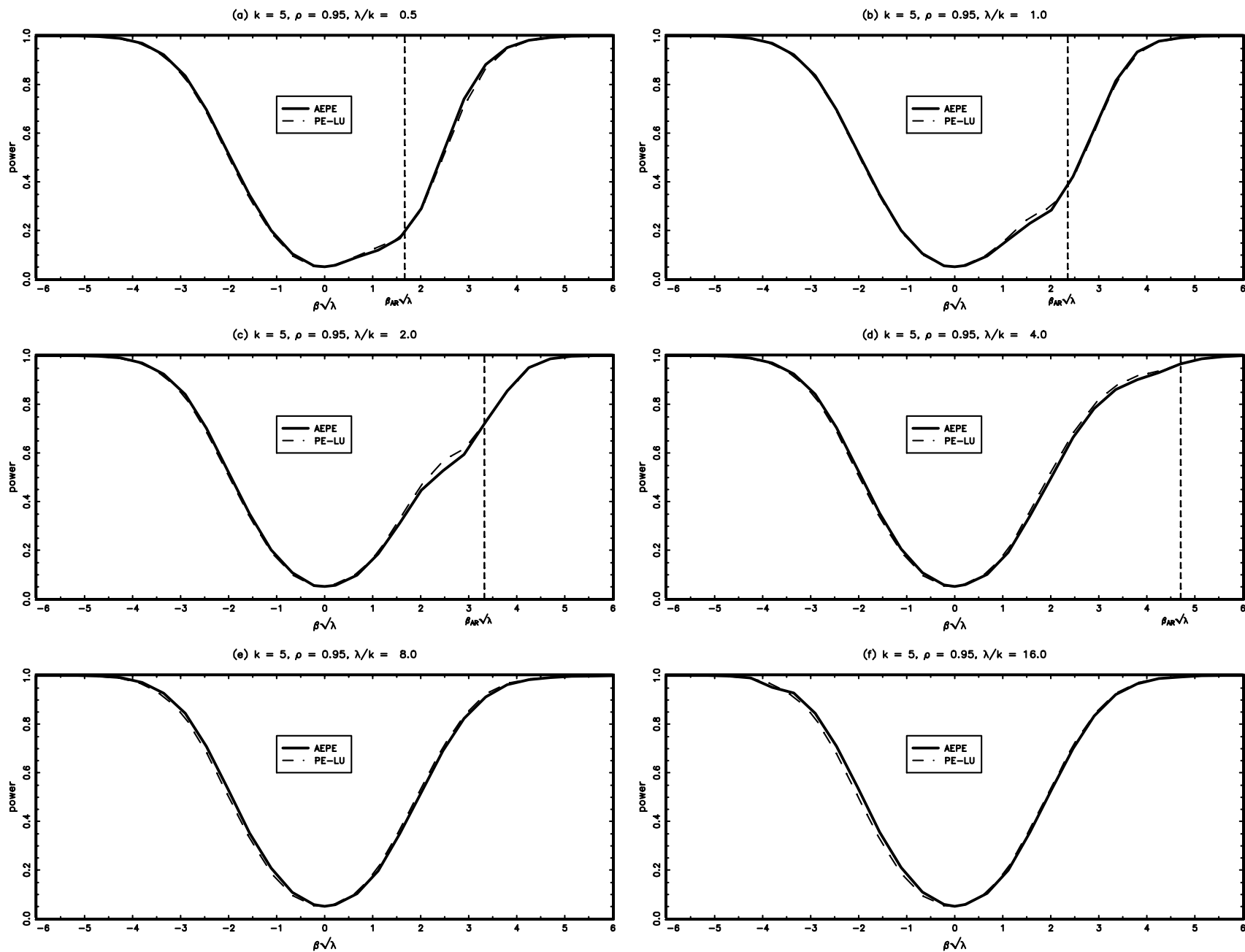


Figure S-1, ctd.

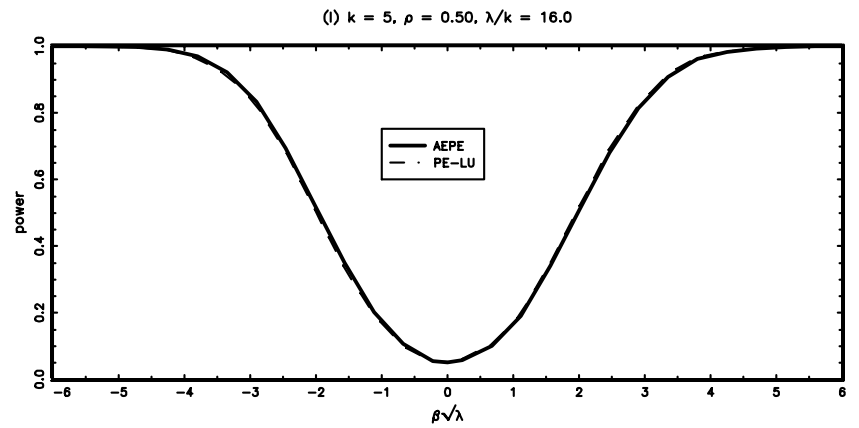
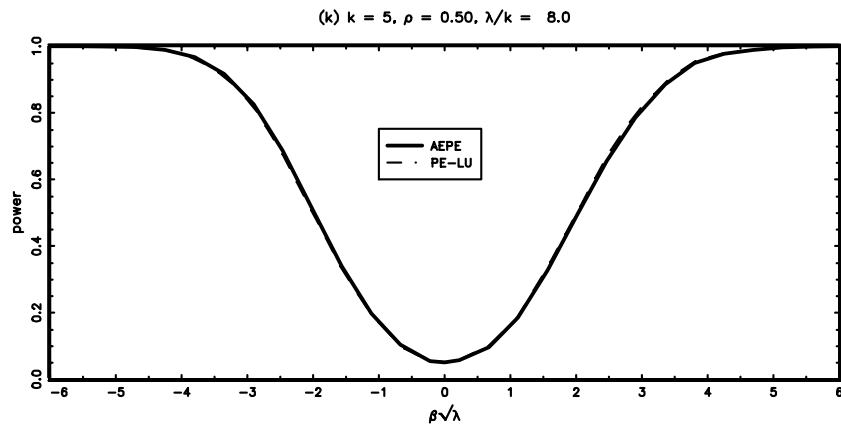
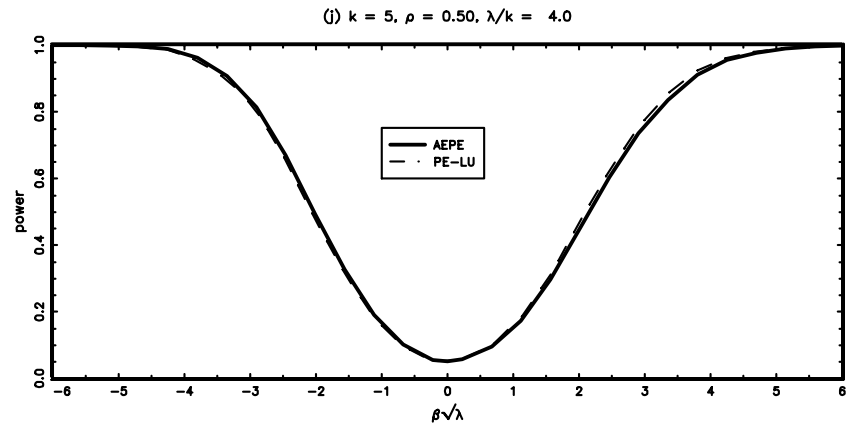
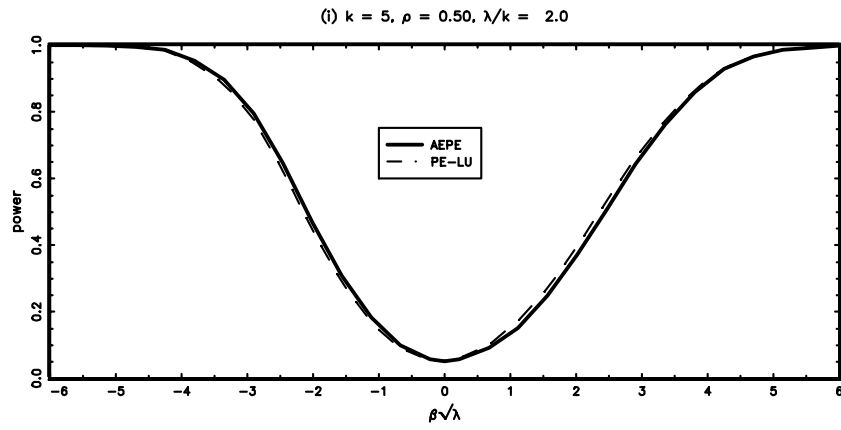
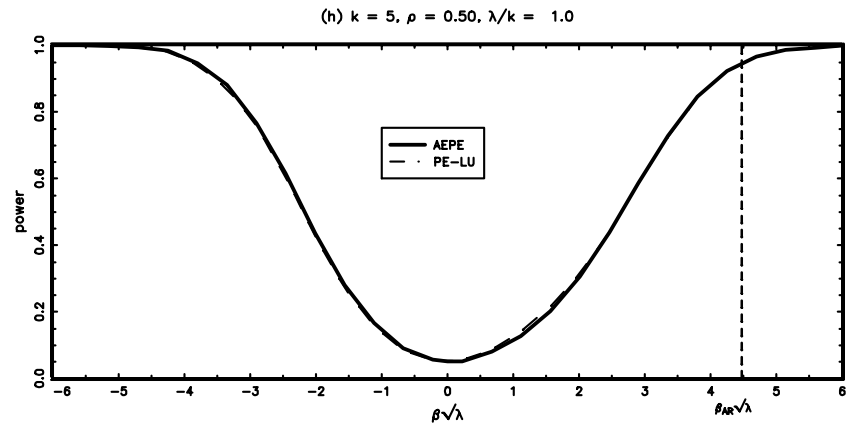
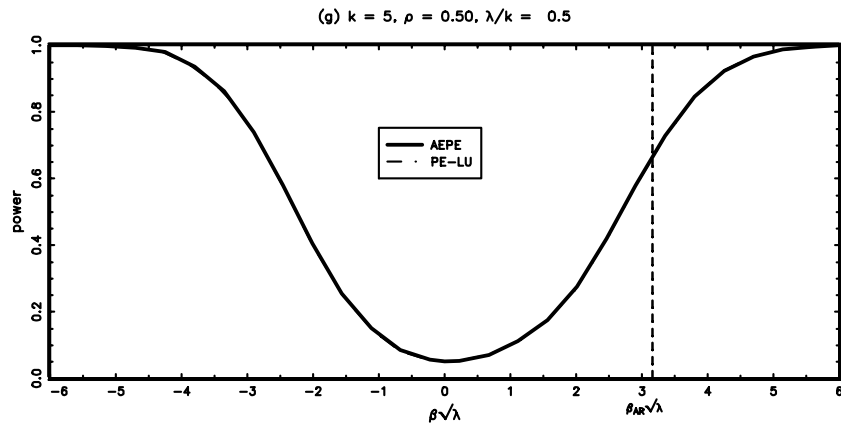


Figure S-1, ctd.

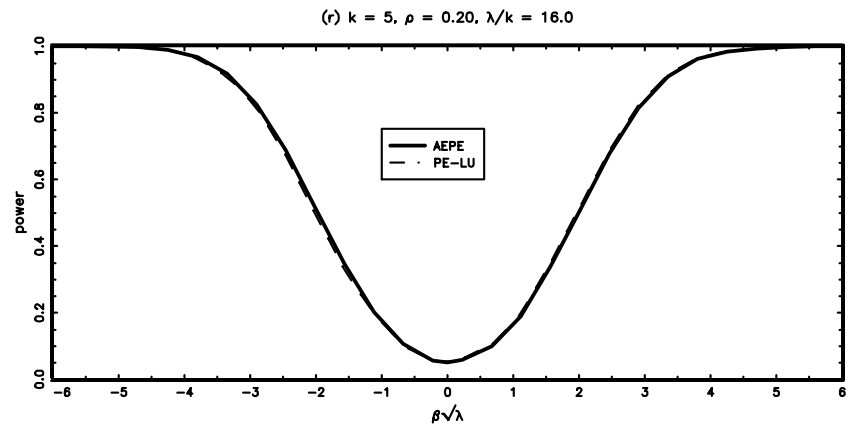
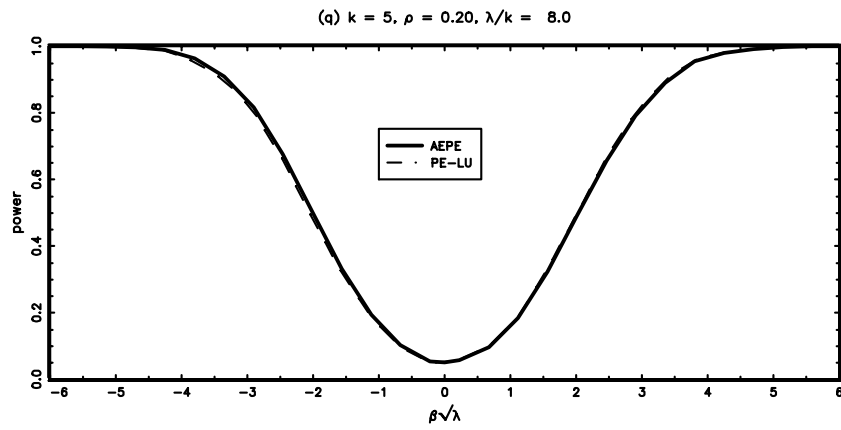
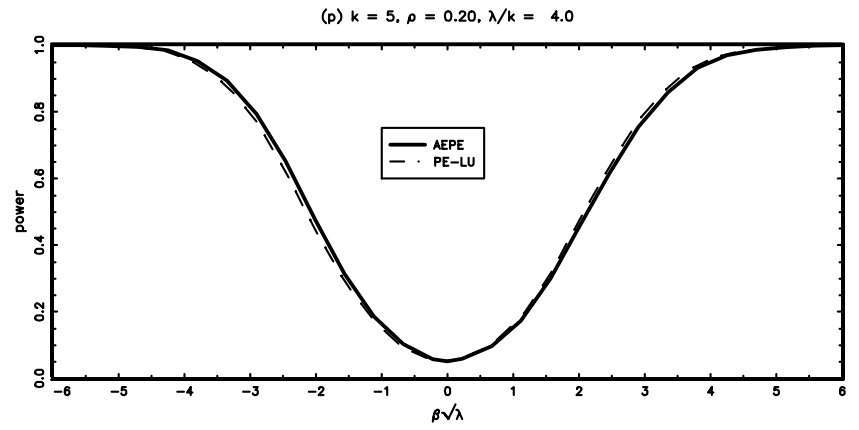
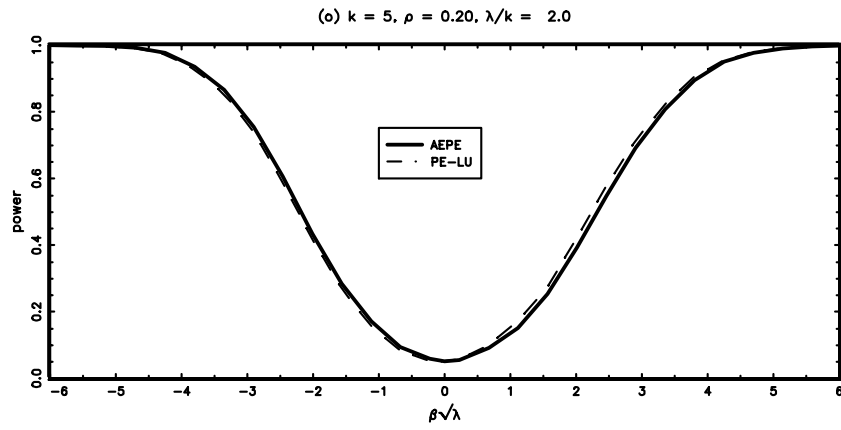
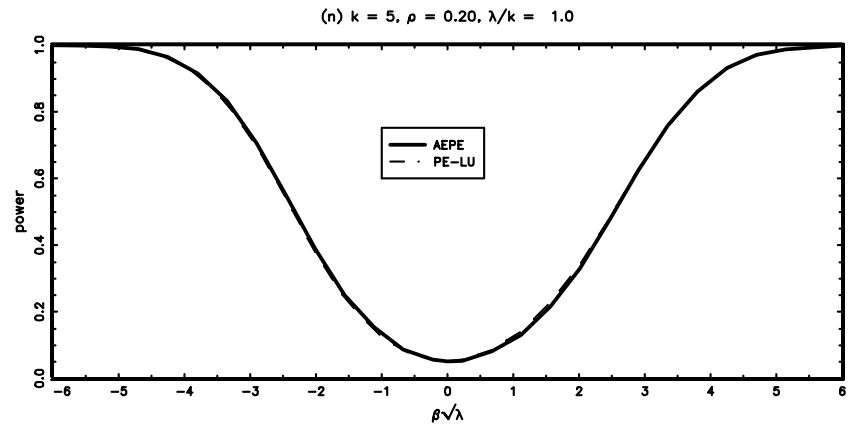
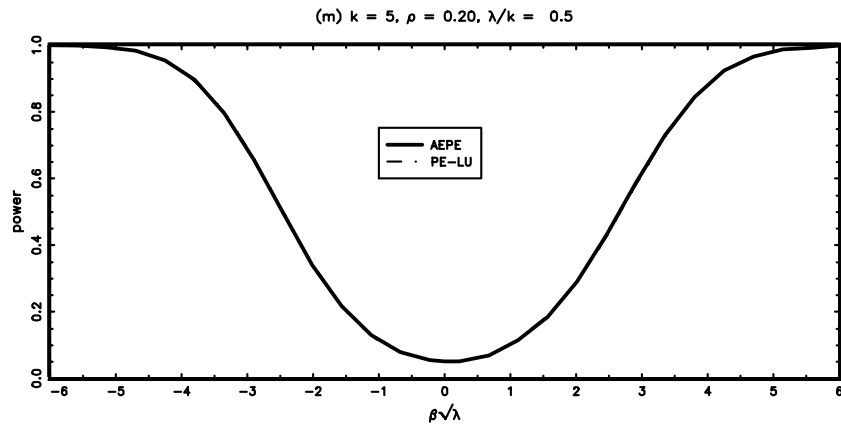


Figure S-2. Asymptotically efficient two-sided power envelopes (AEPE) and power functions for the two-sided CLR, LM, and AR tests,  $k = 2$

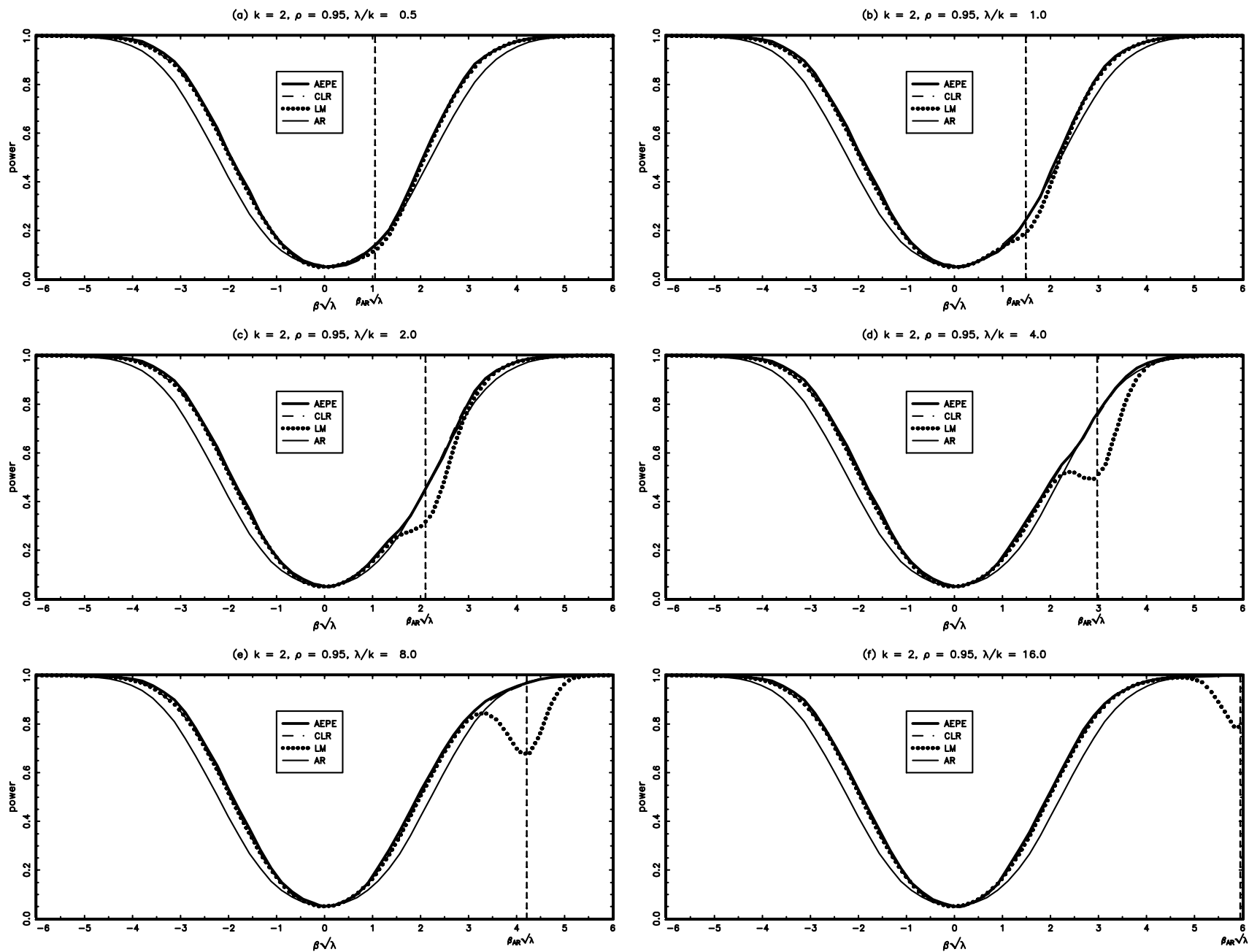


Figure S-2, ctd.

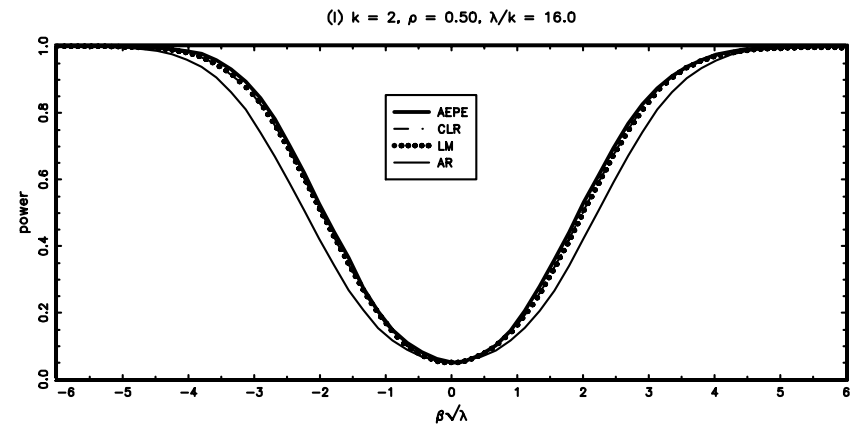
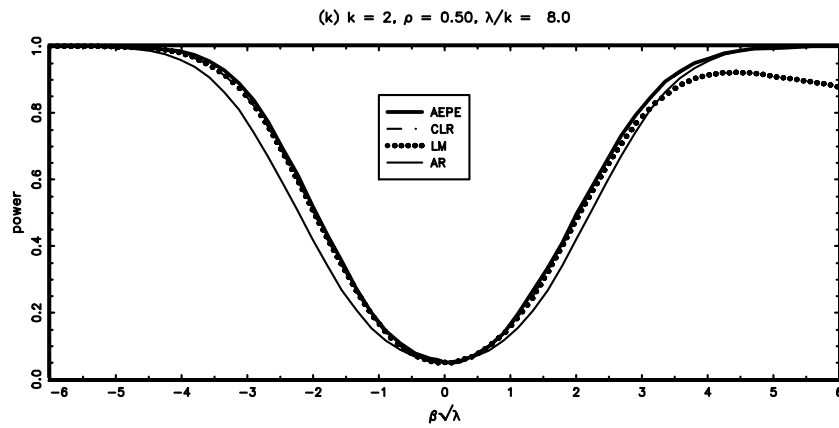
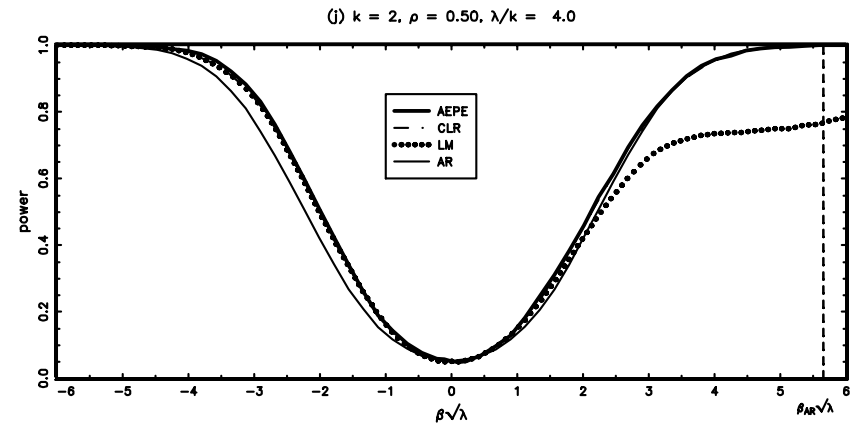
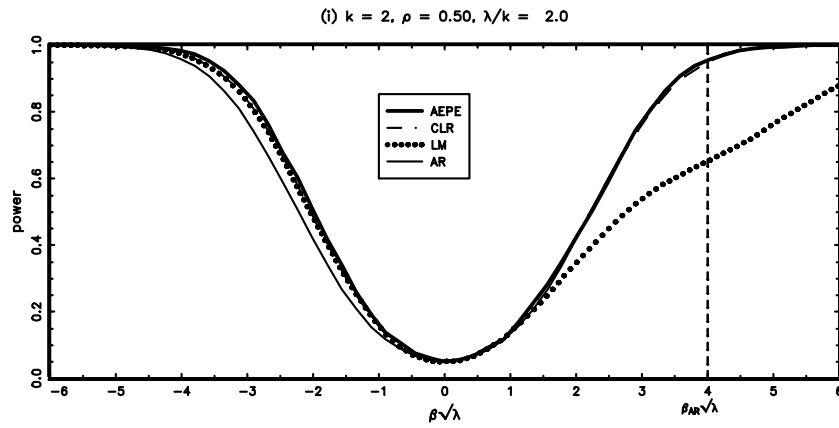
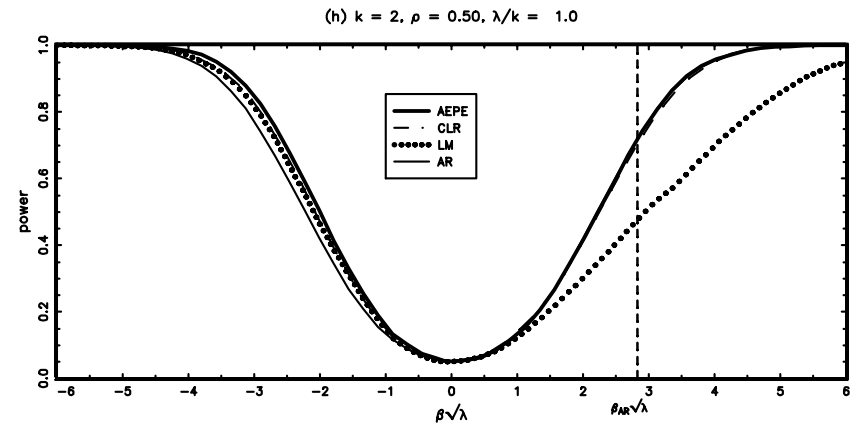
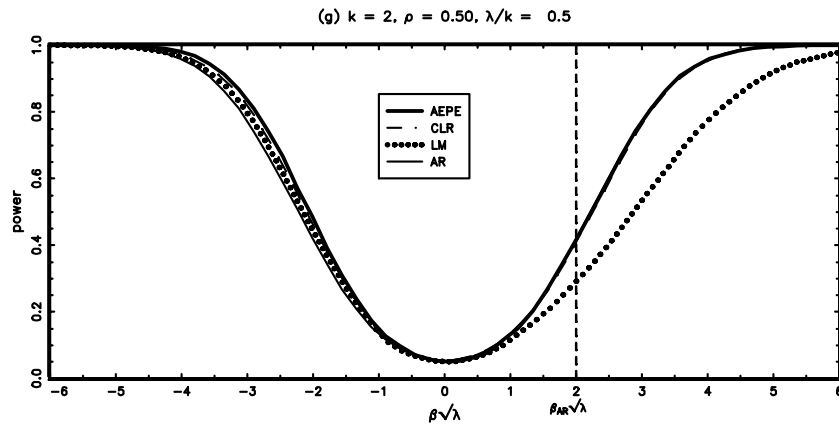


Figure S-2, ctd.

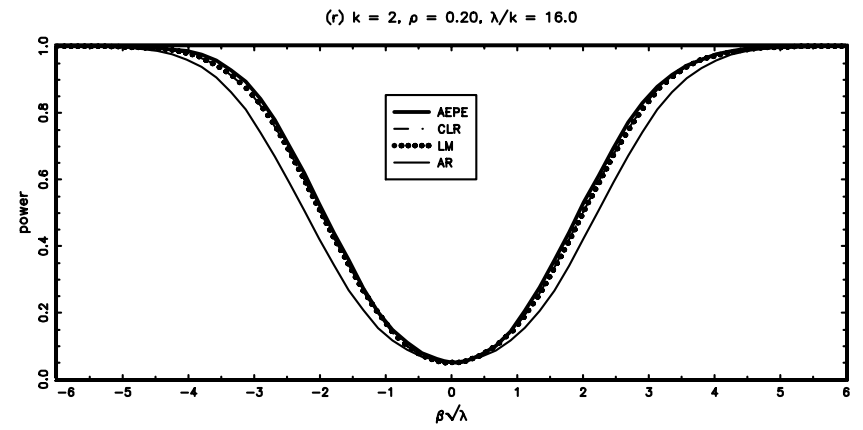
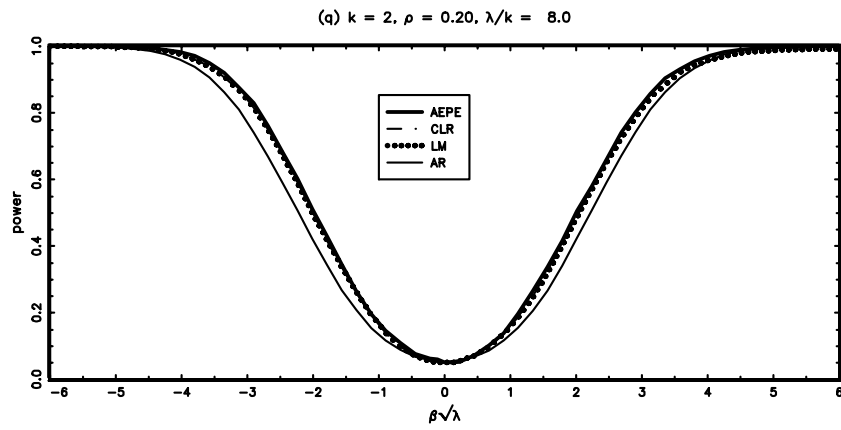
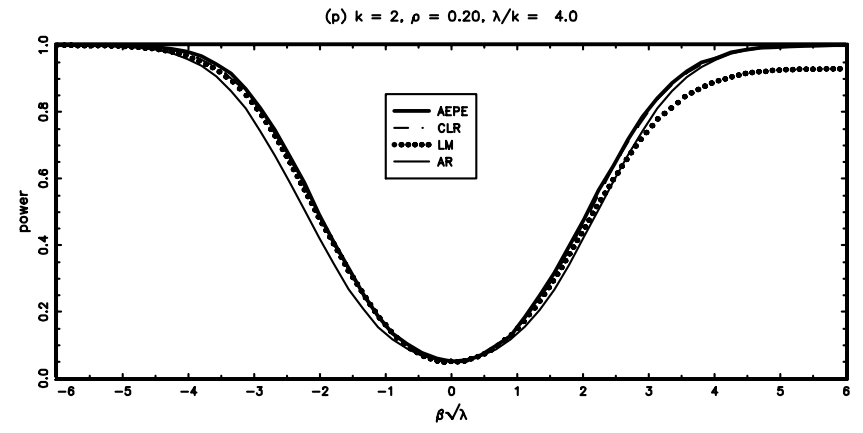
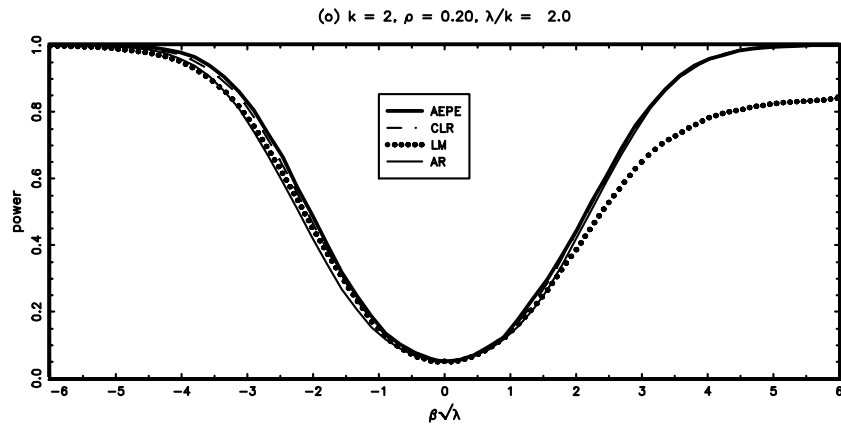
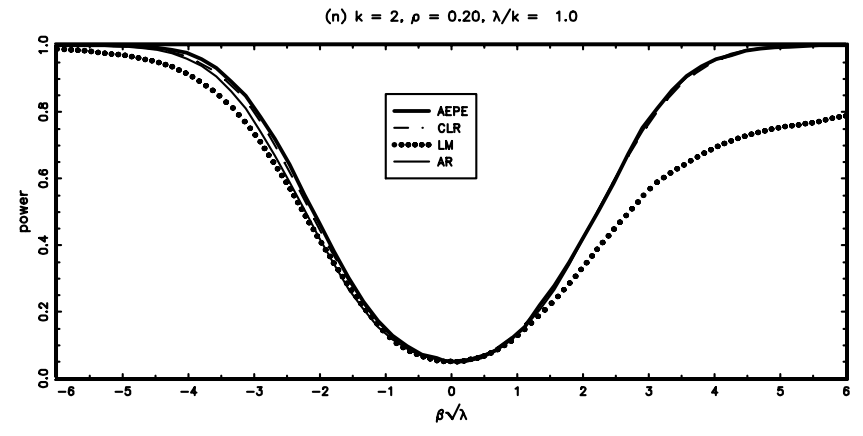
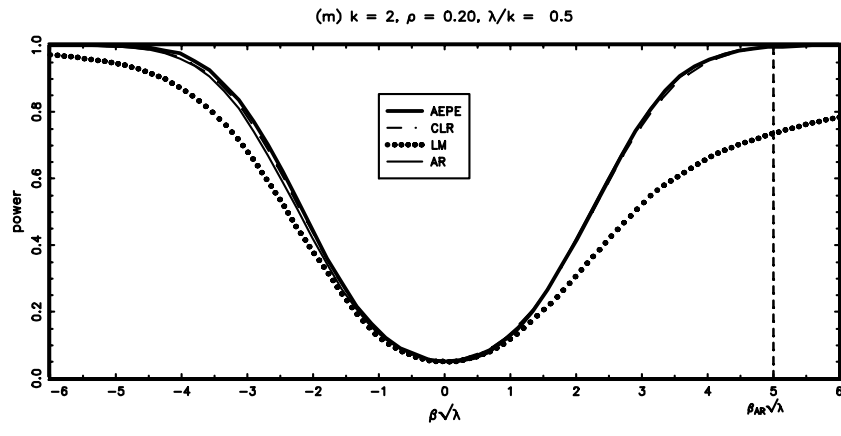


Figure S-3. Asymptotically efficient two-sided power envelopes (AEPE) and power functions for the two-sided CLR, LM, and AR tests,  $k = 5$

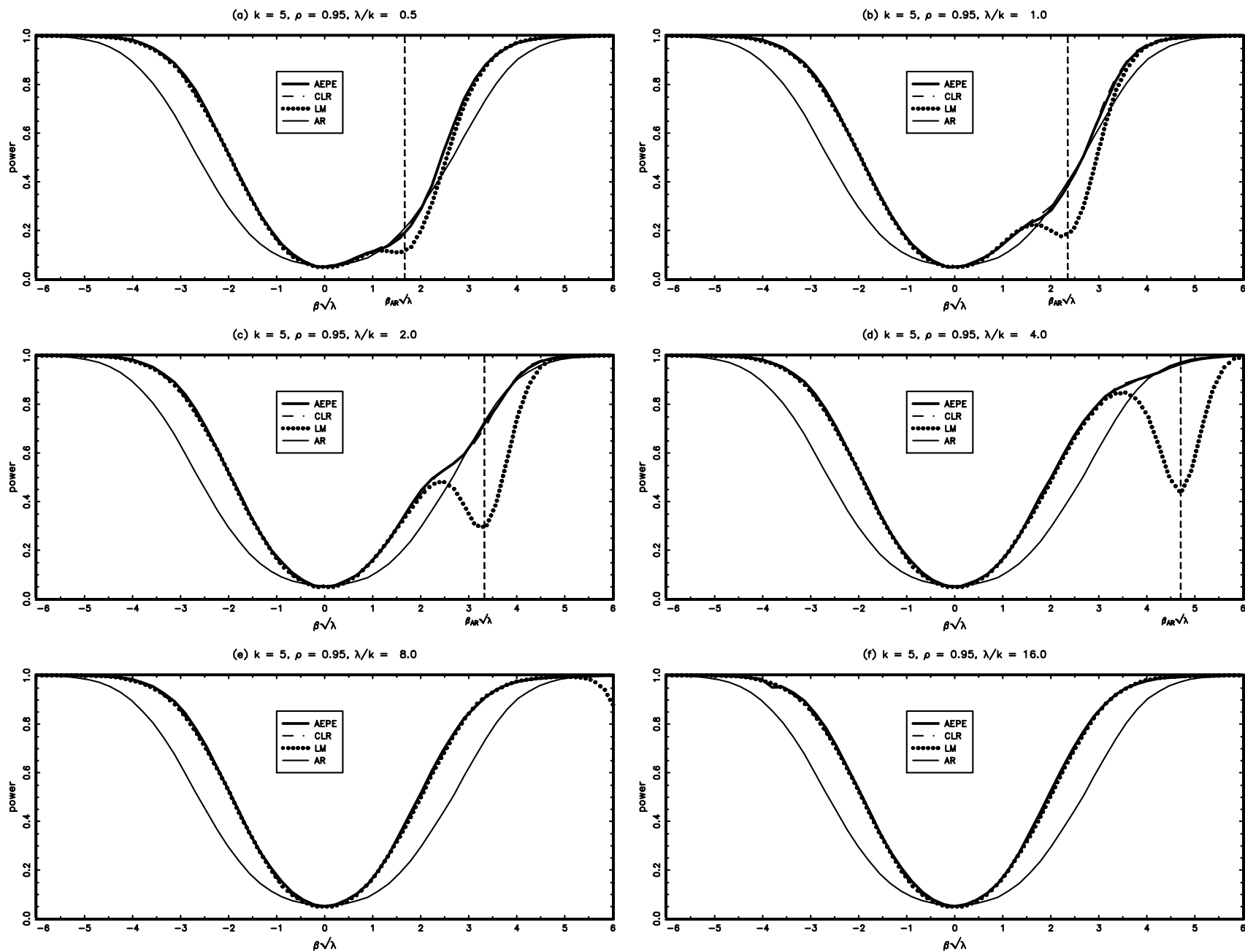


Figure S-3, ctd.

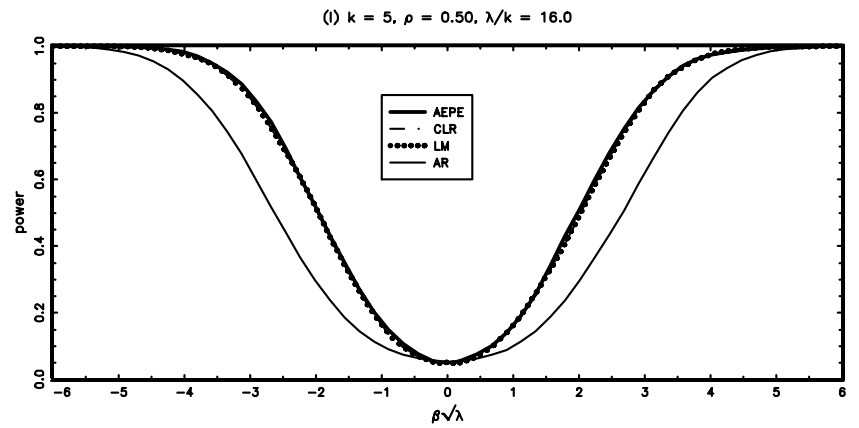
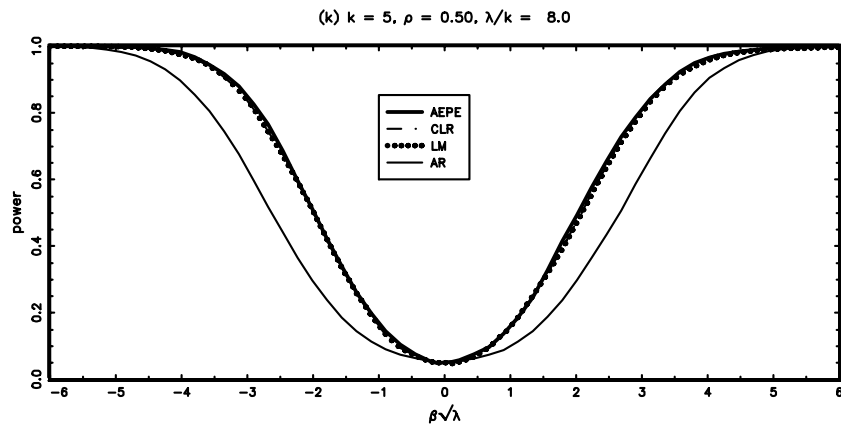
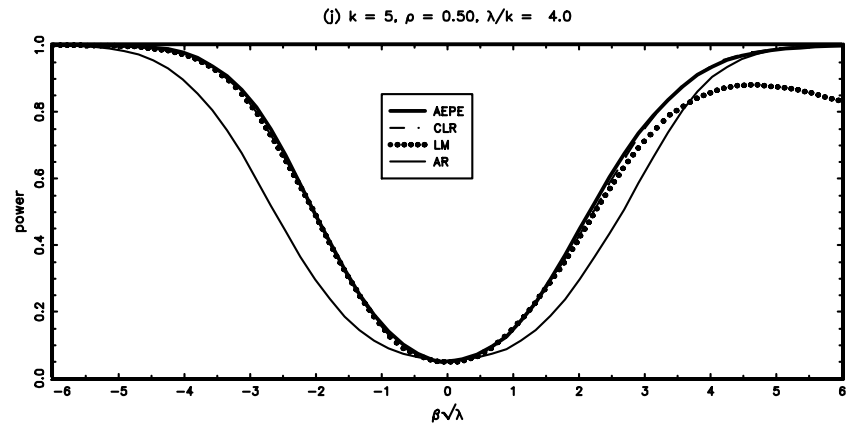
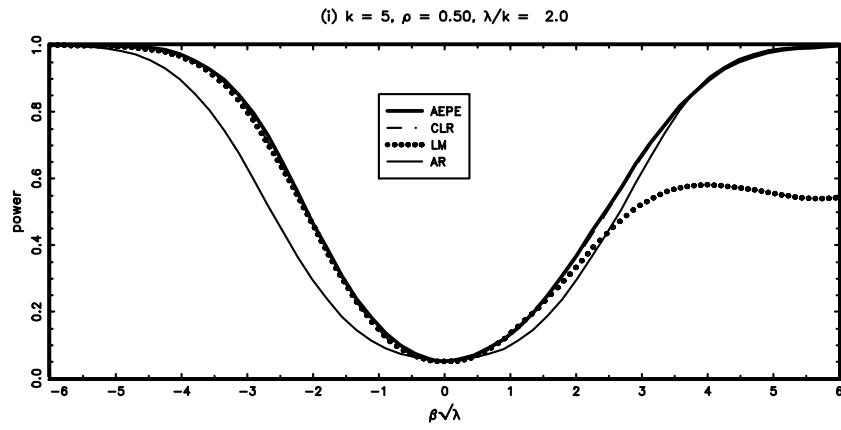
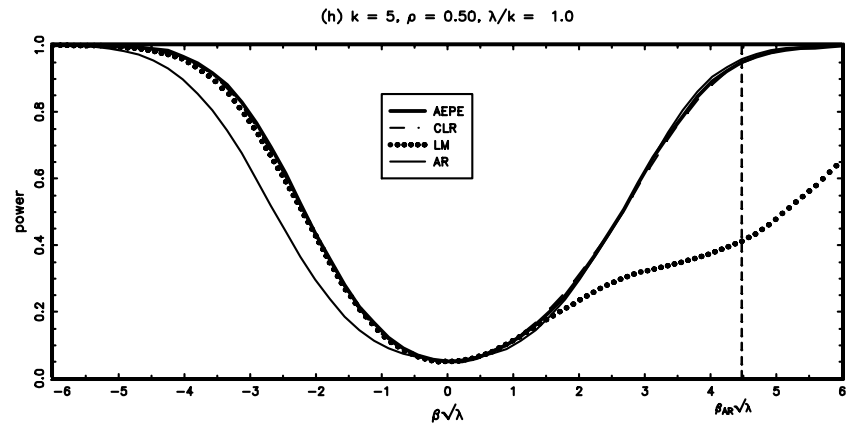
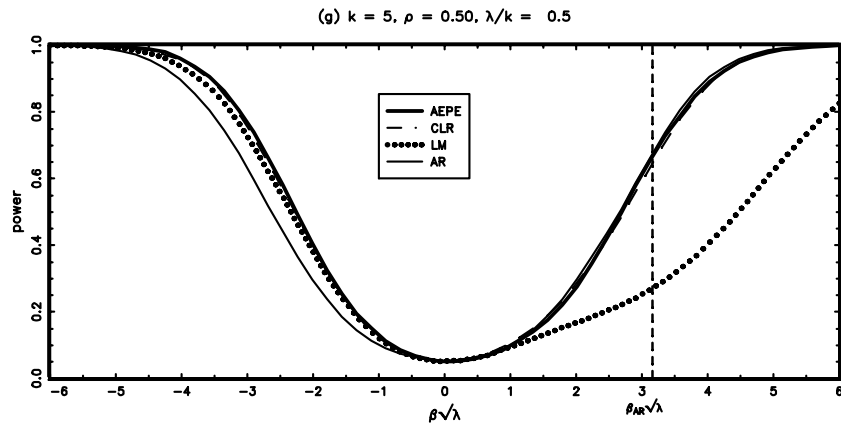




Figure S-3, ctd.

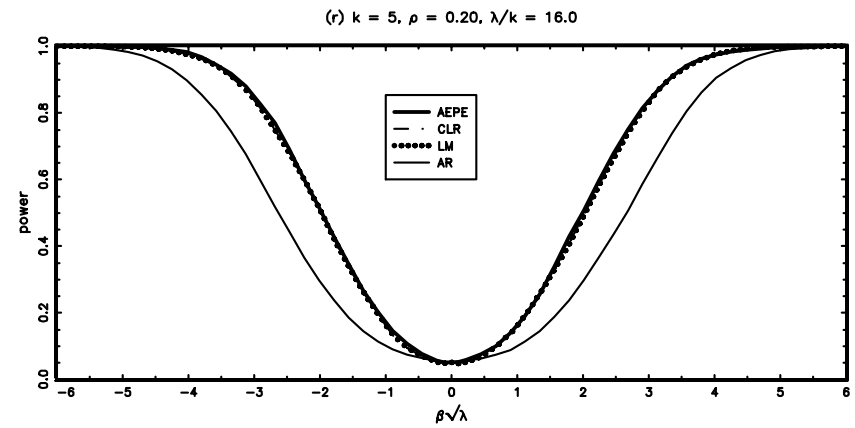
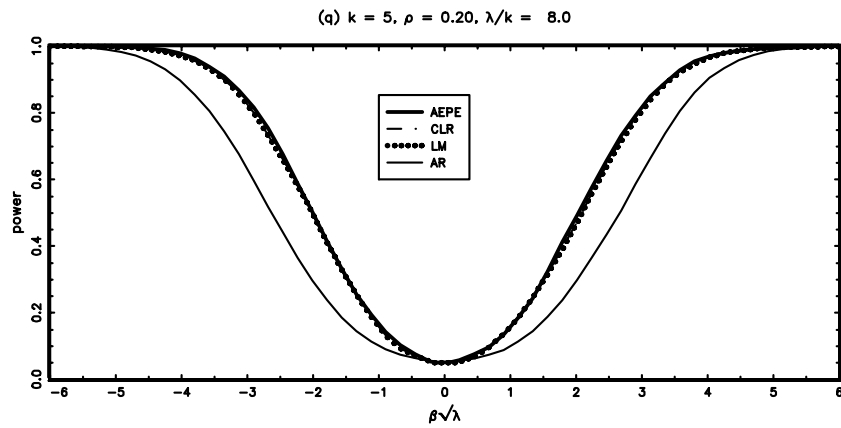
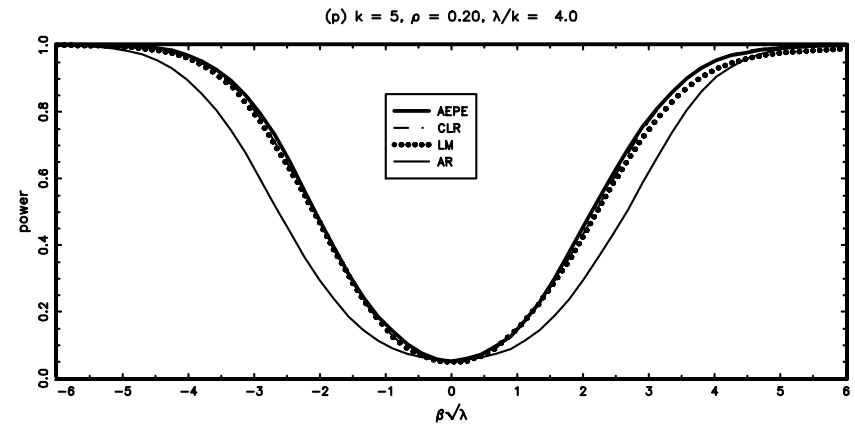
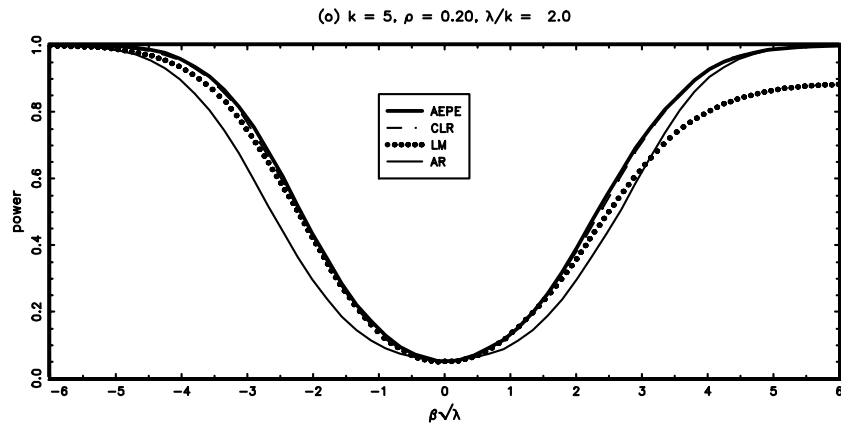
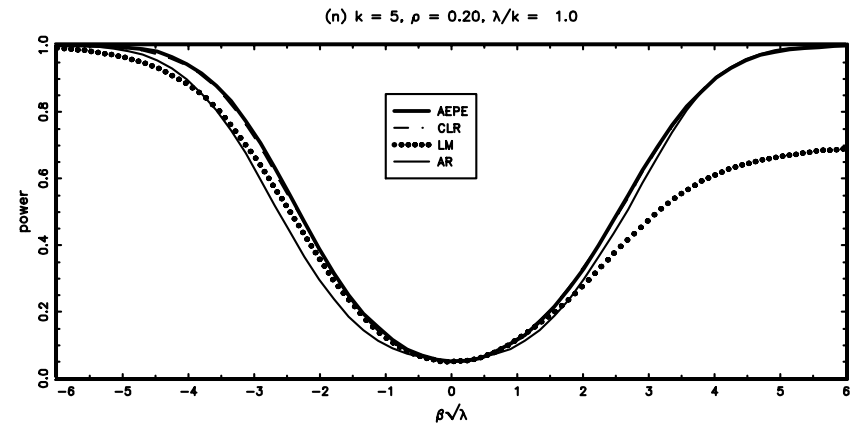
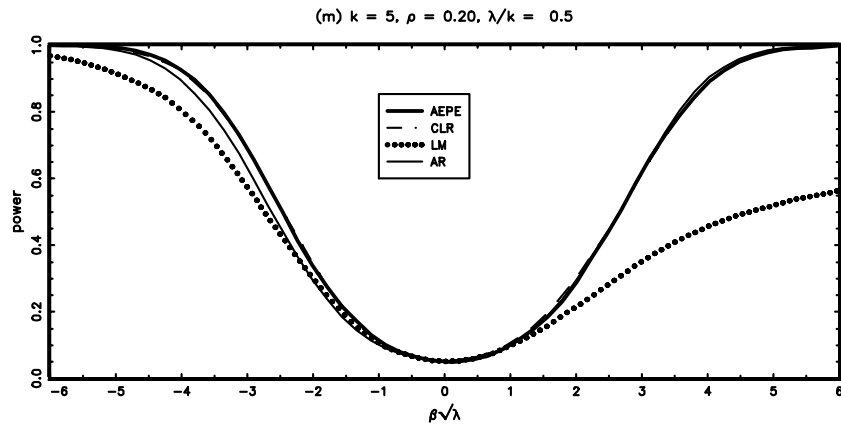


Figure S-4. Asymptotically efficient two-sided power envelopes (AEPE) and power functions for the two-sided CLR, LM, and AR tests,  $k = 10$

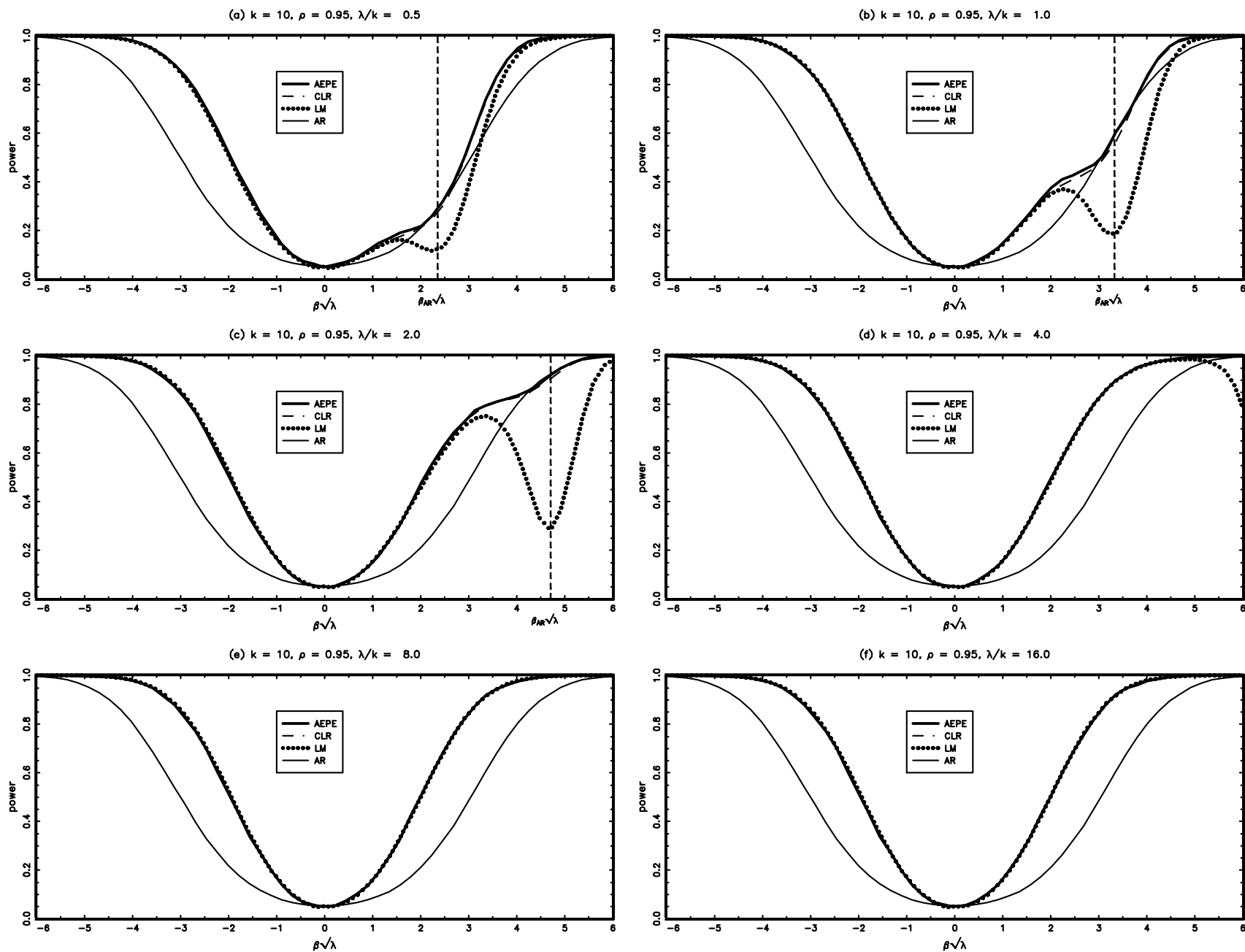


Figure S-4, ctd.

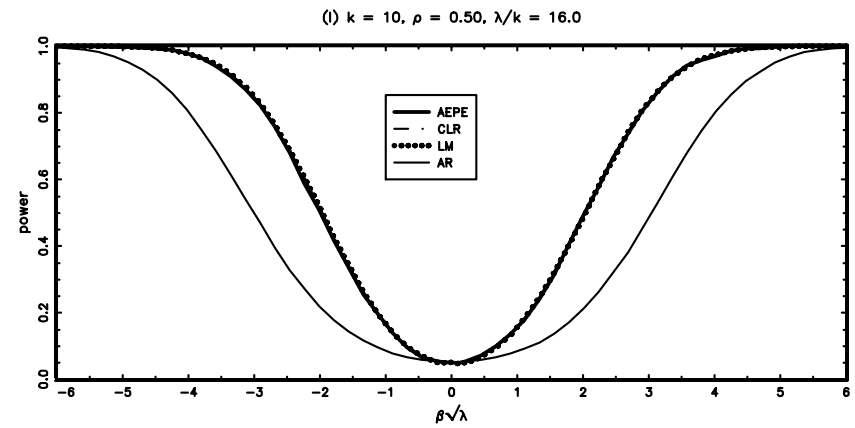
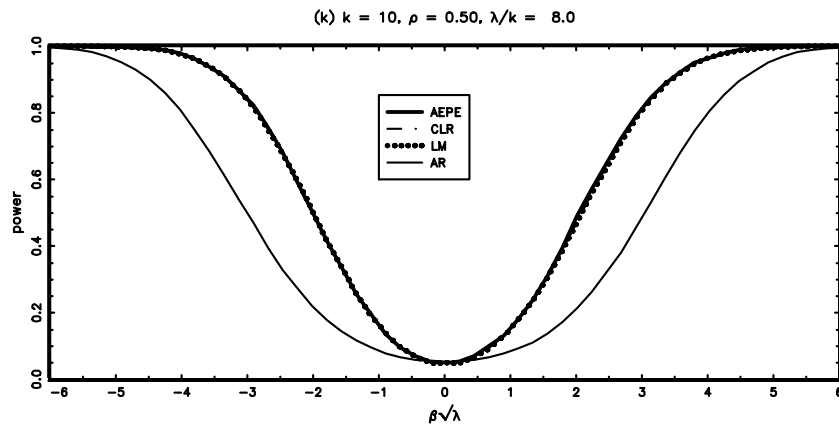
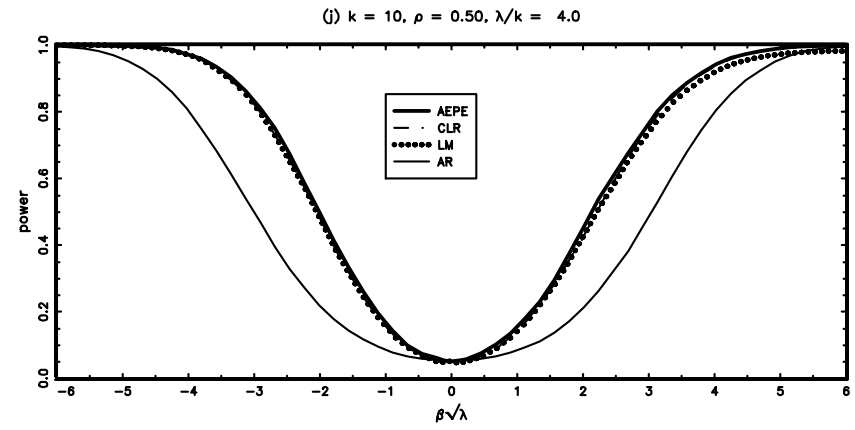
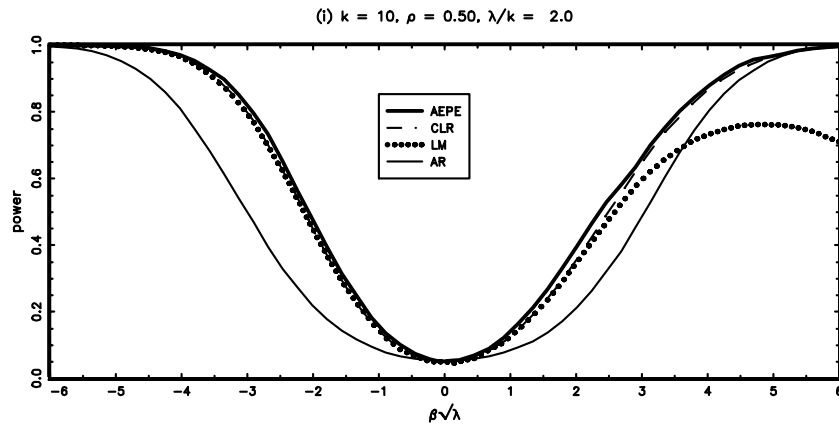
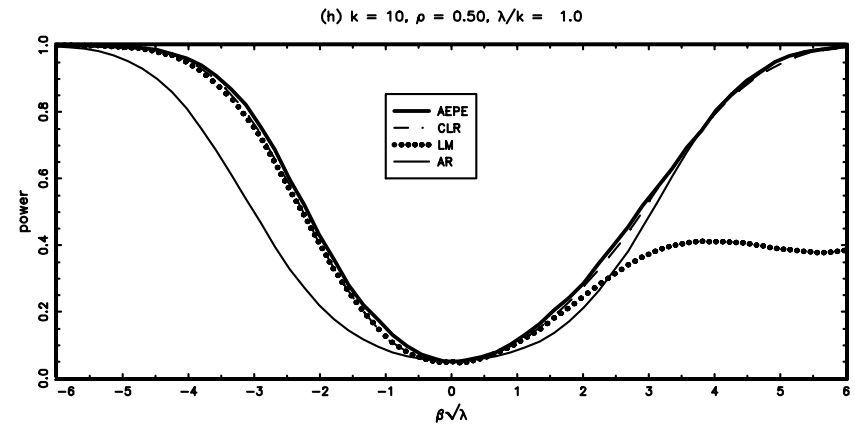
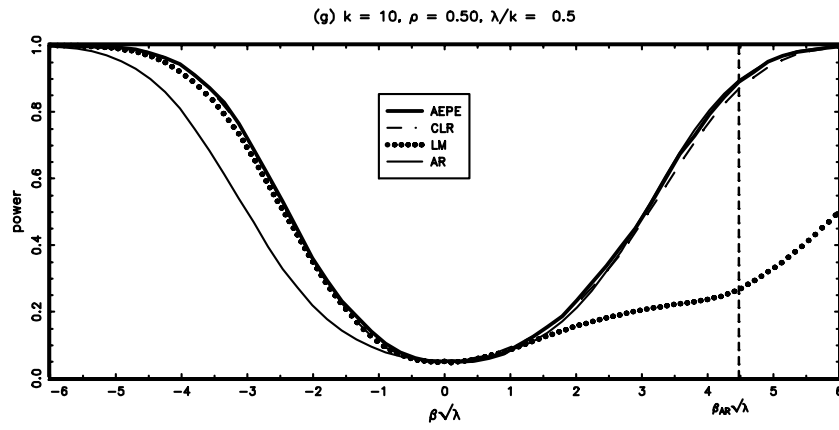


Figure S-4, ctd.

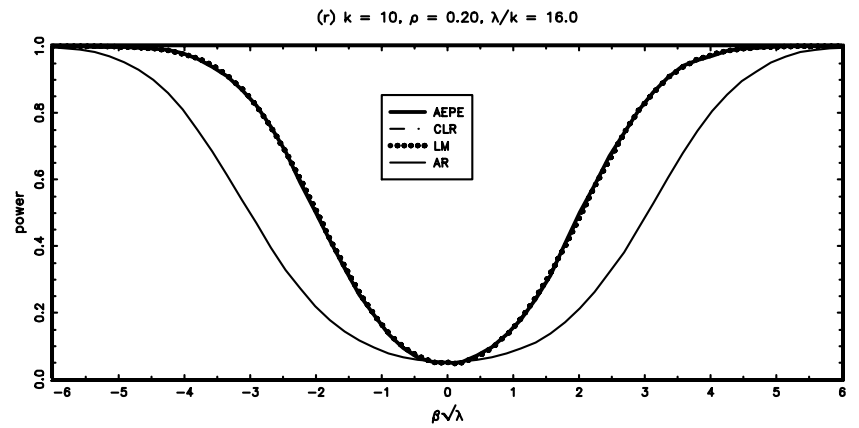
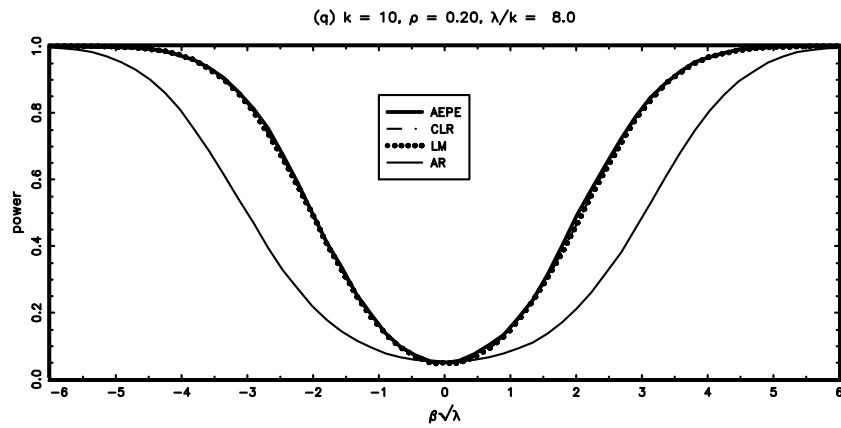
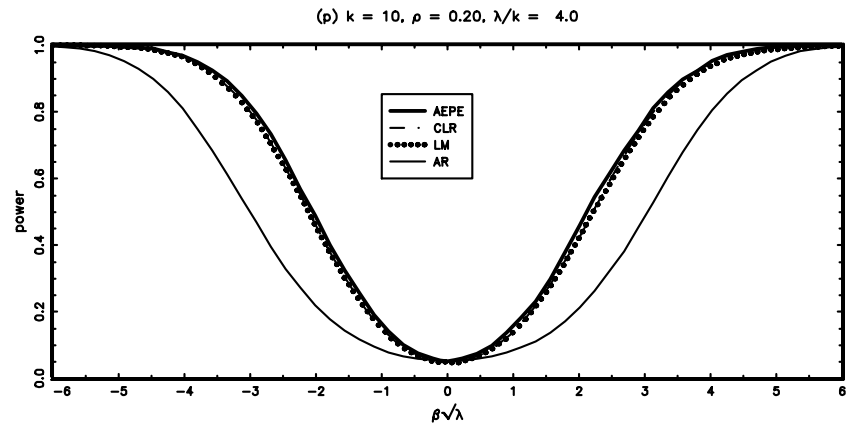
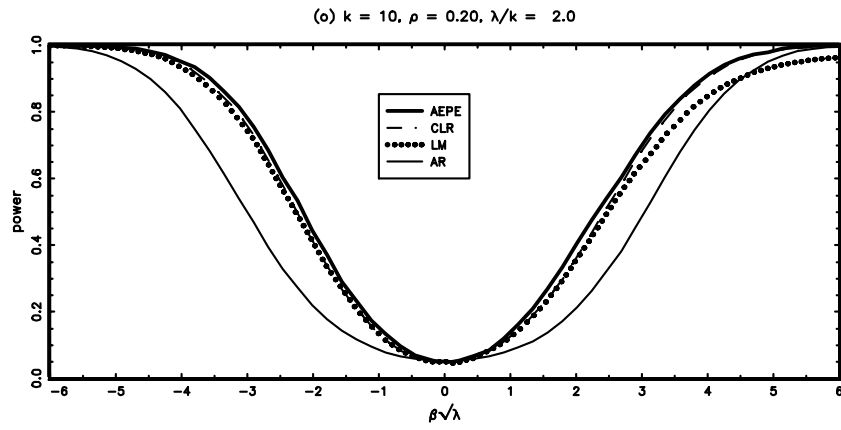
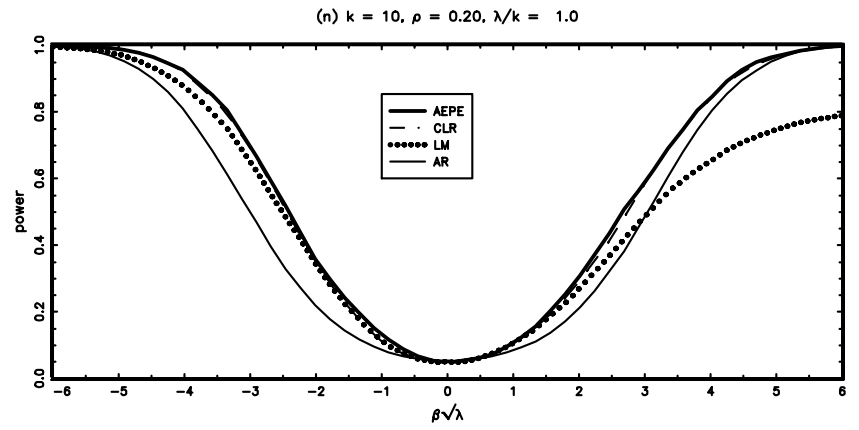
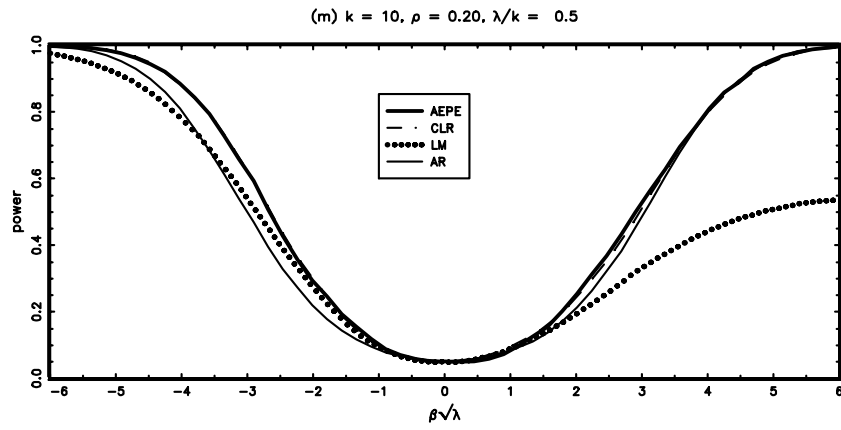


Figure S-5. Asymptotically efficient two-sided power envelopes (AEPE) and power functions for the two-sided CLR, LM, and AR tests,  $k = 20$

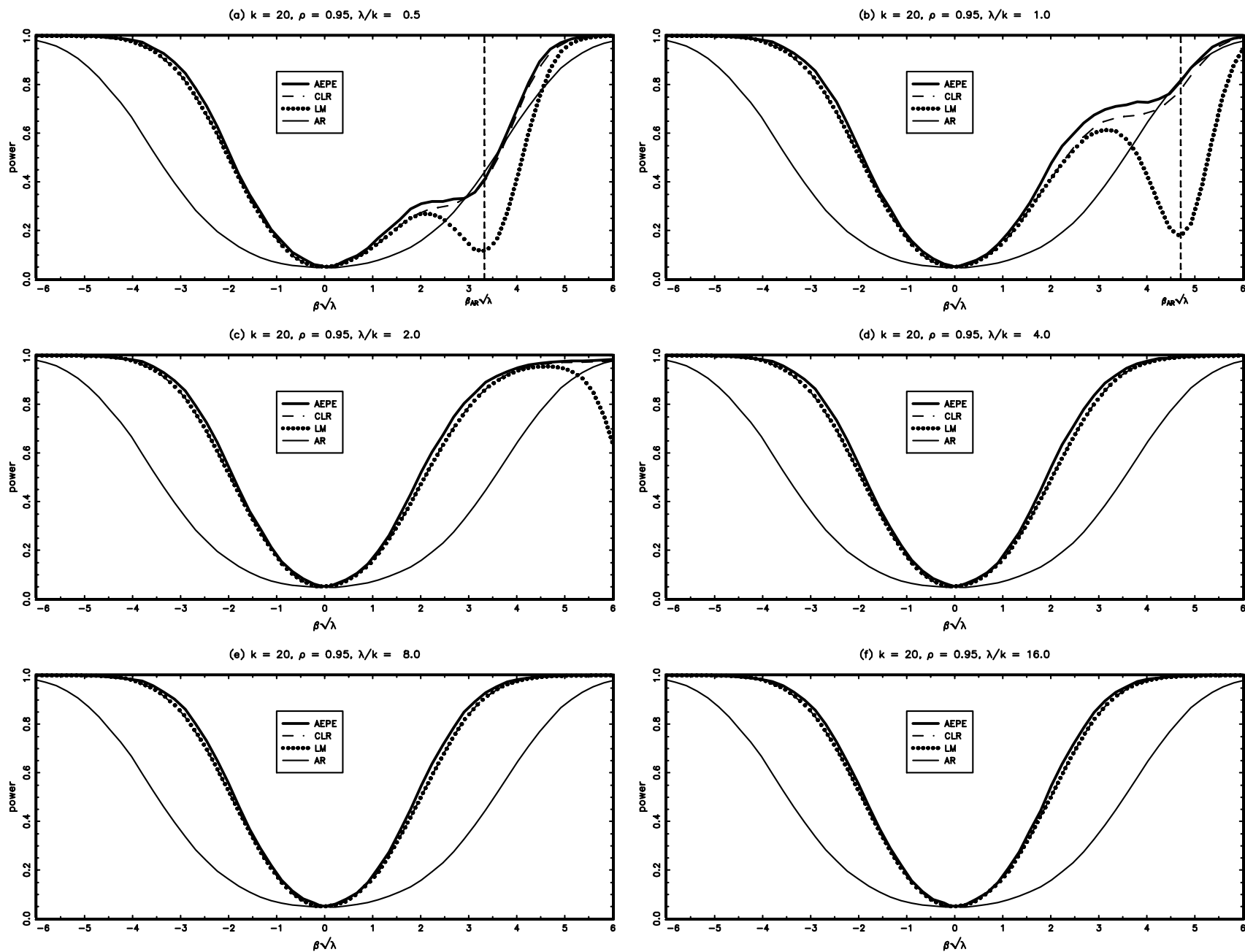


Figure S-5, ctd.

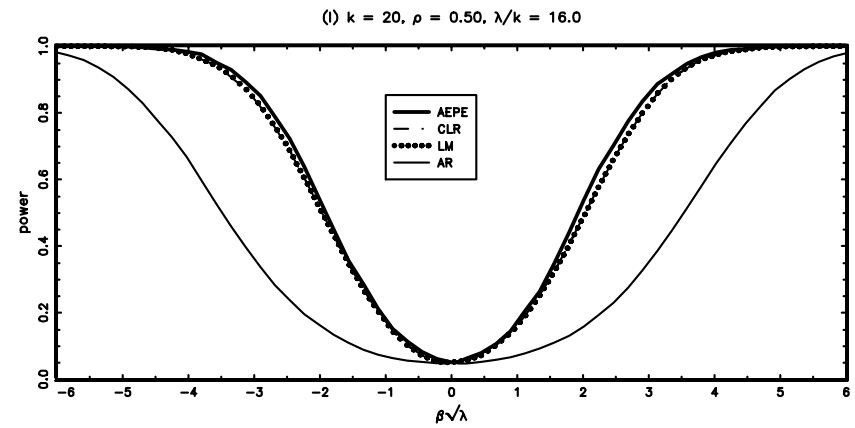
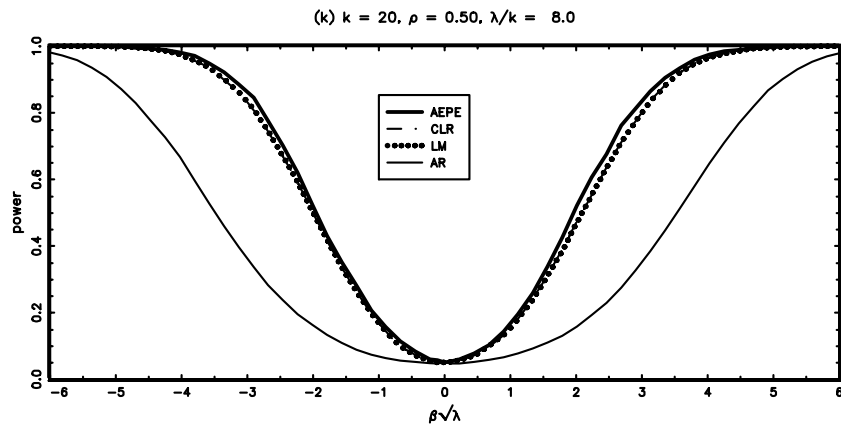
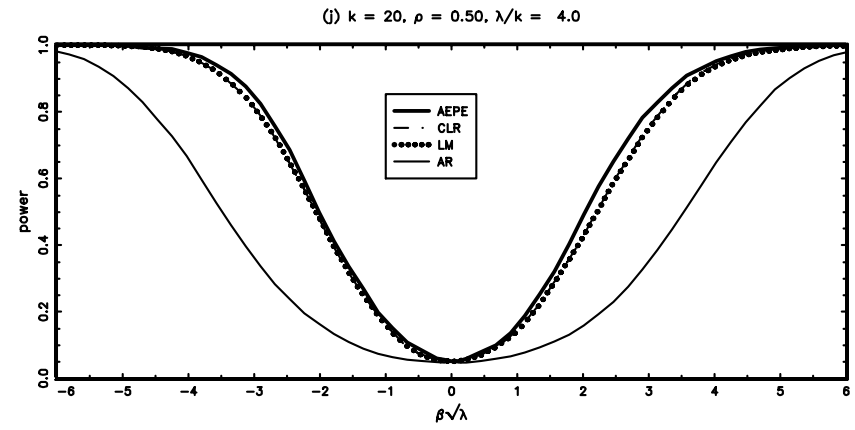
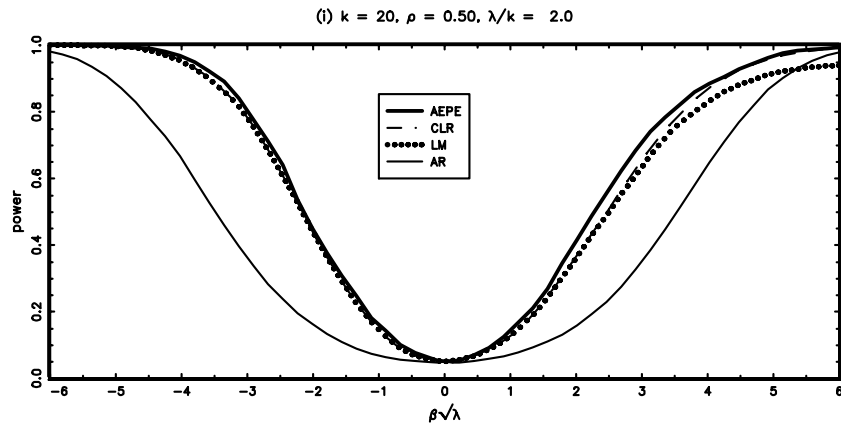
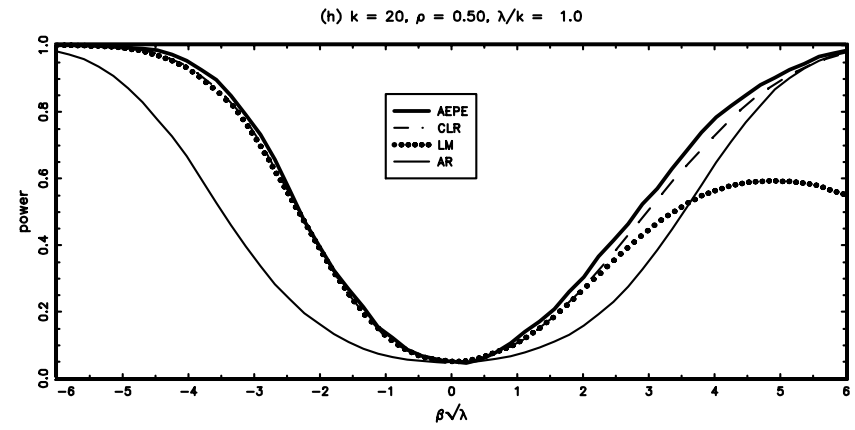
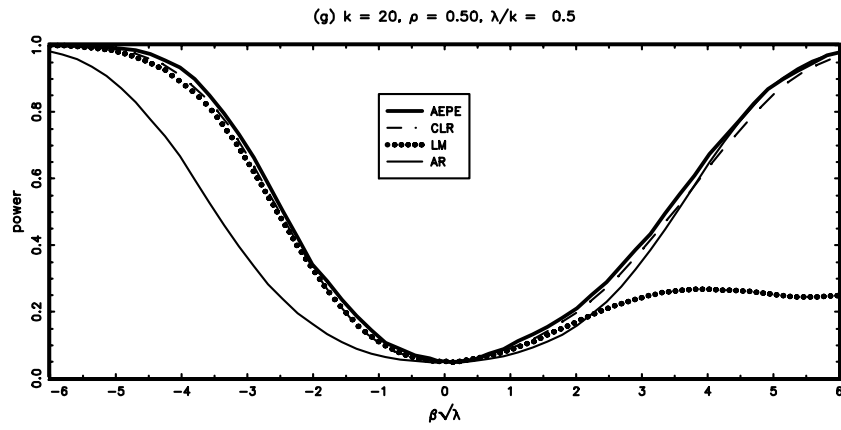


Figure S-5, ctd.

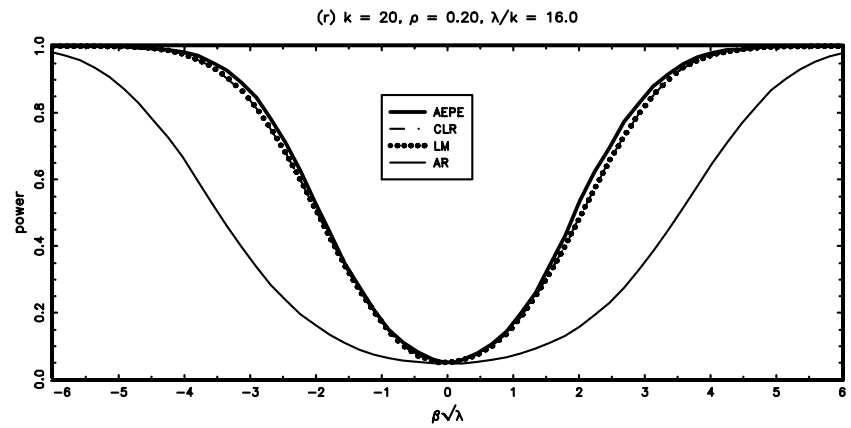
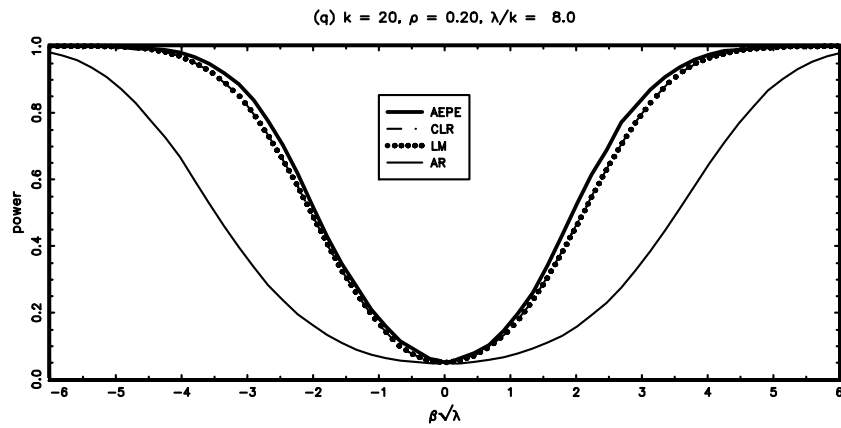
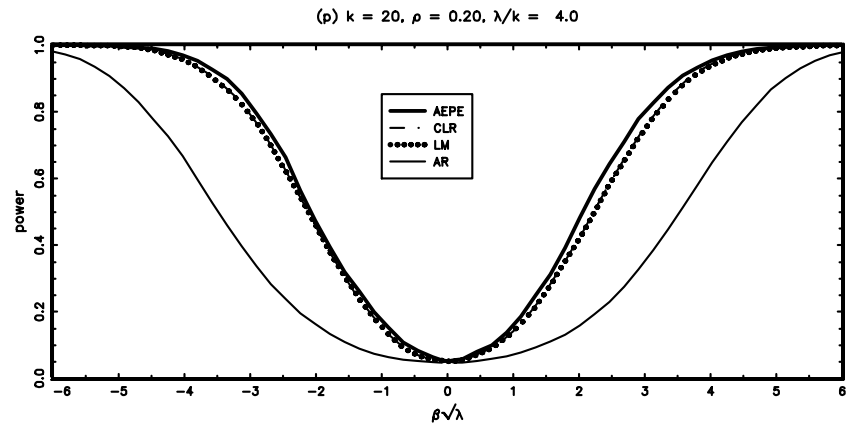
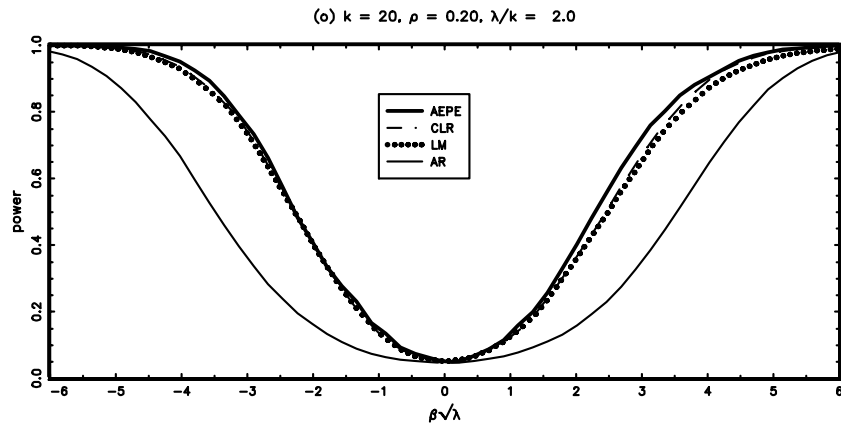
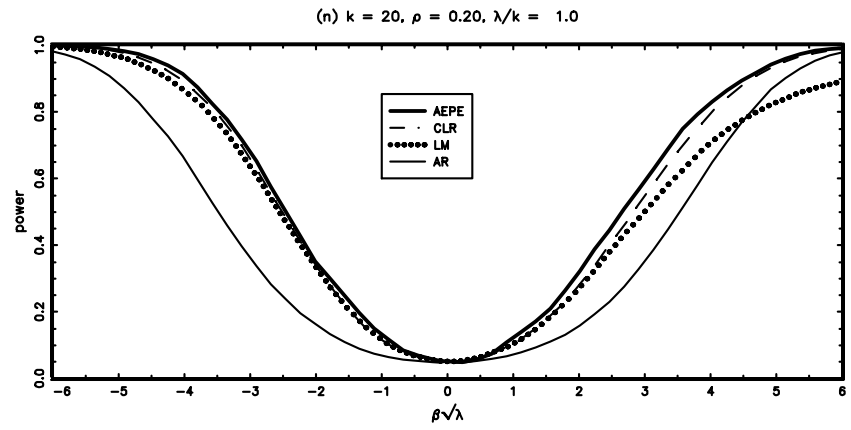
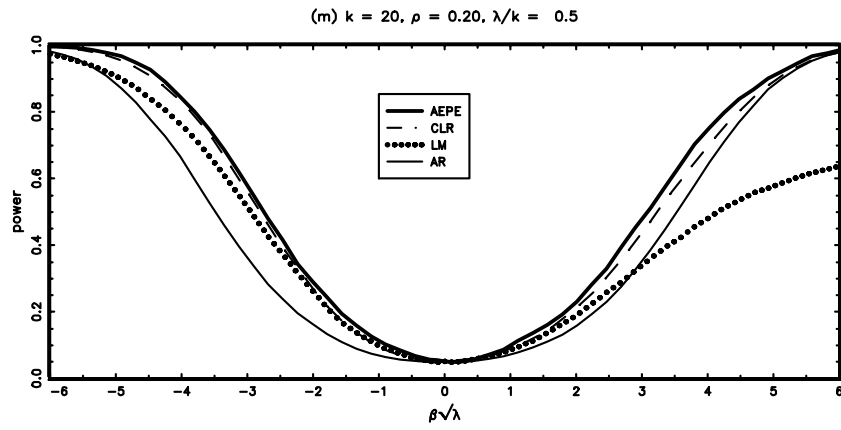


Figure S-6. Asymptotically efficient two-sided power envelopes for invariant similar tests (AEPE) and 2-sided POI (tangency) tests at 25% power (POIS<sub>2a</sub>) and 75% power (POIS<sub>2b</sub>),  $k = 5$

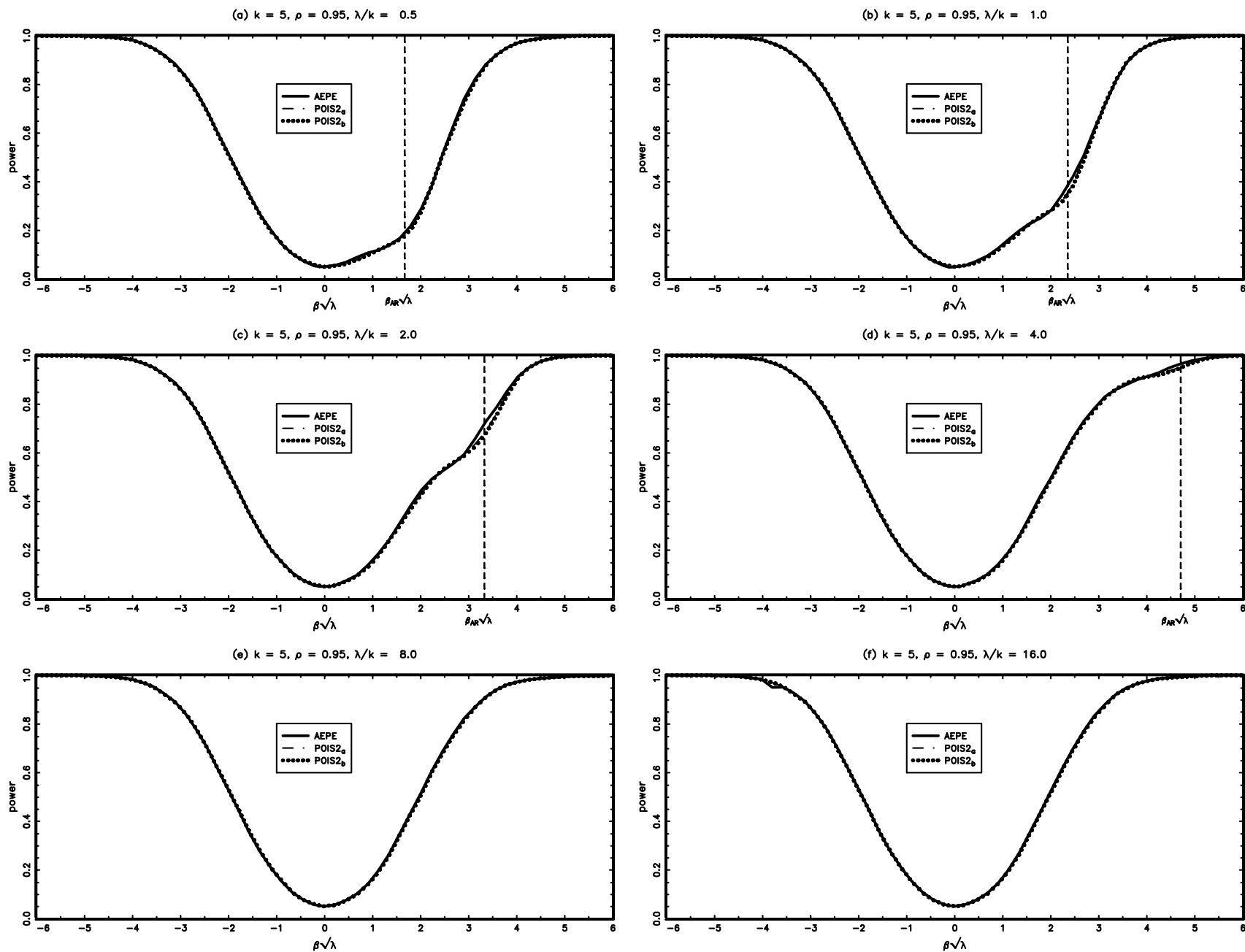




Figure S-6, ctd.

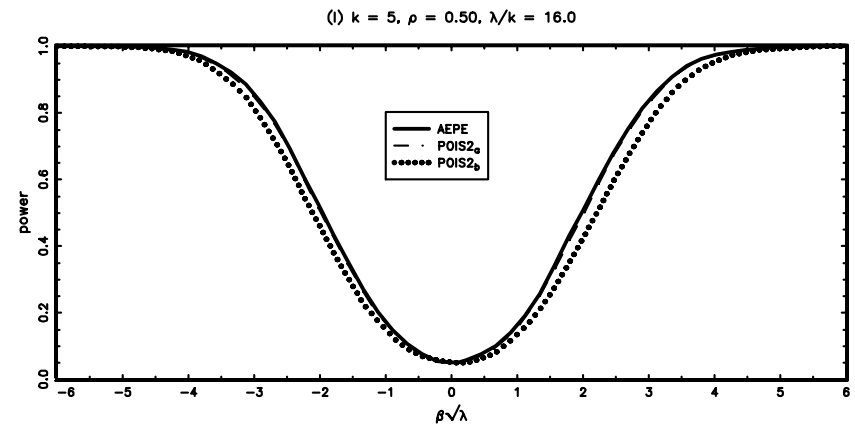
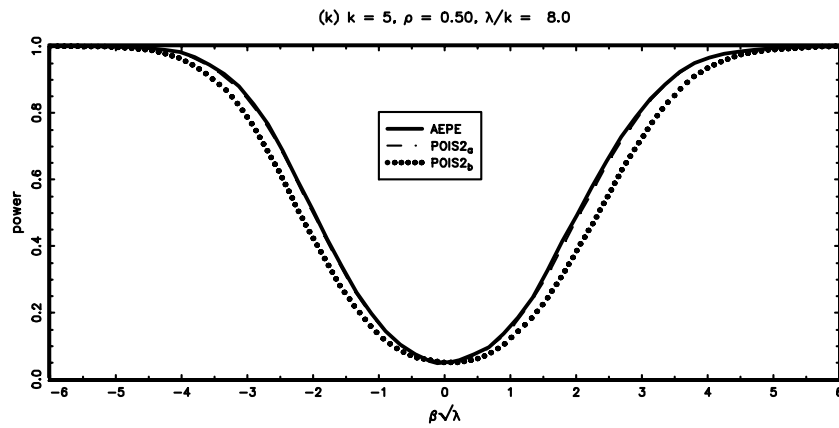
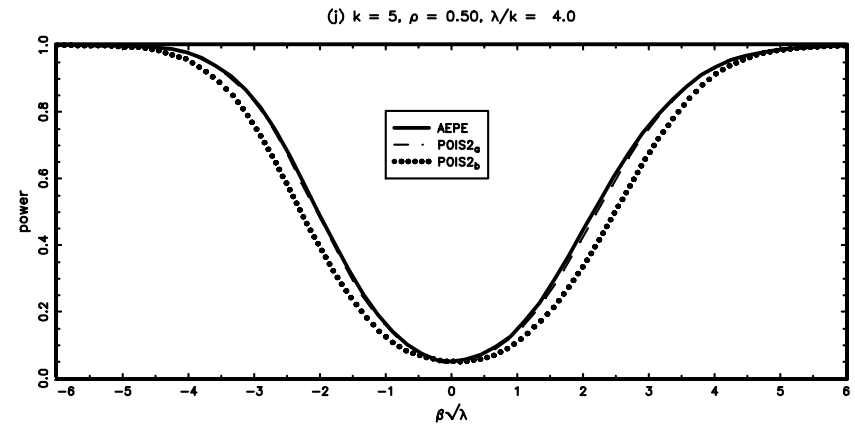
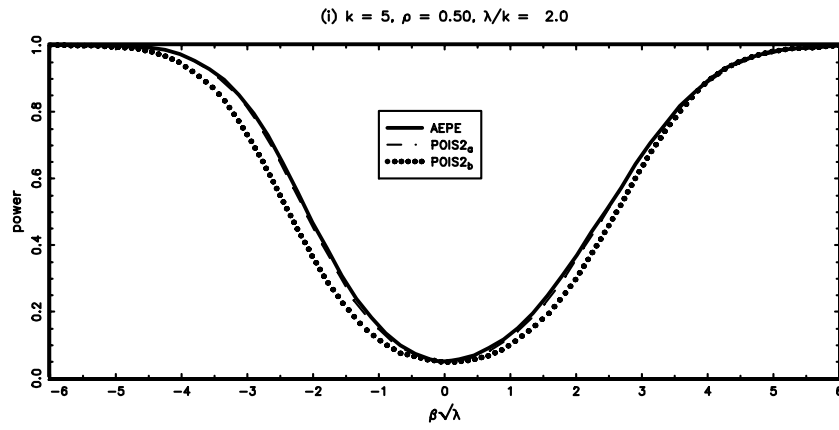
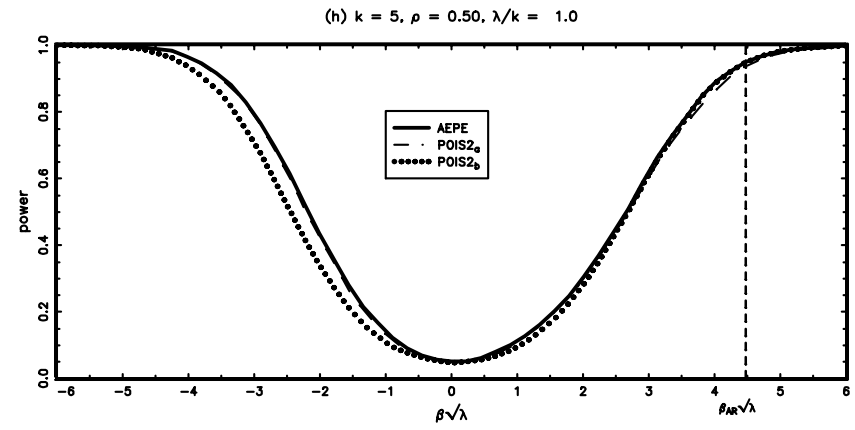
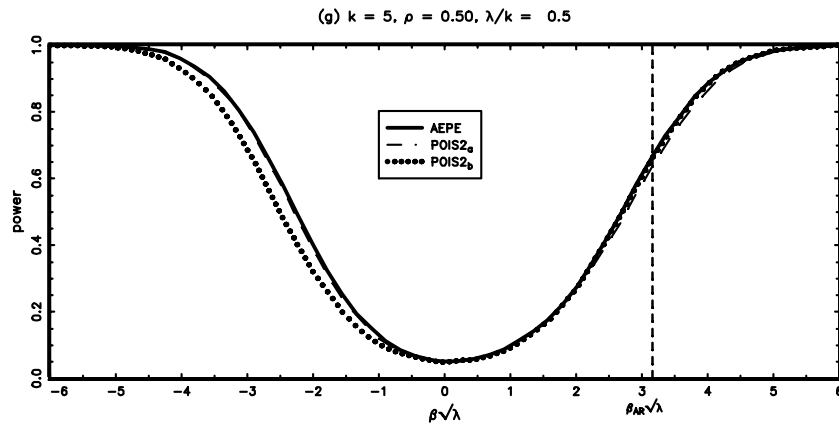
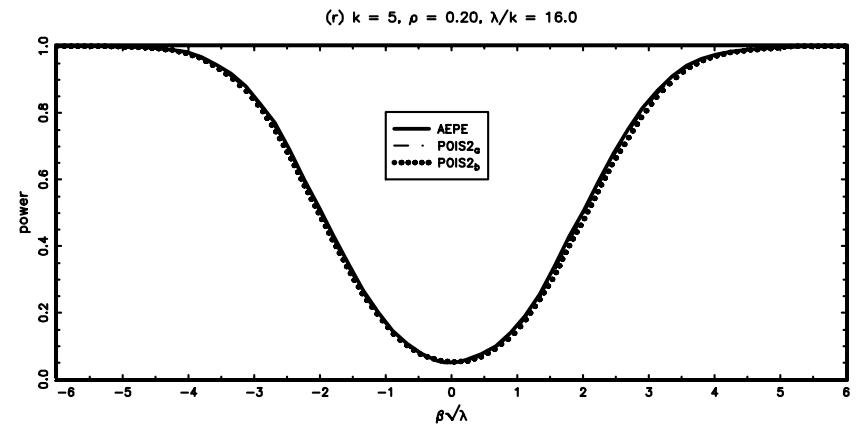
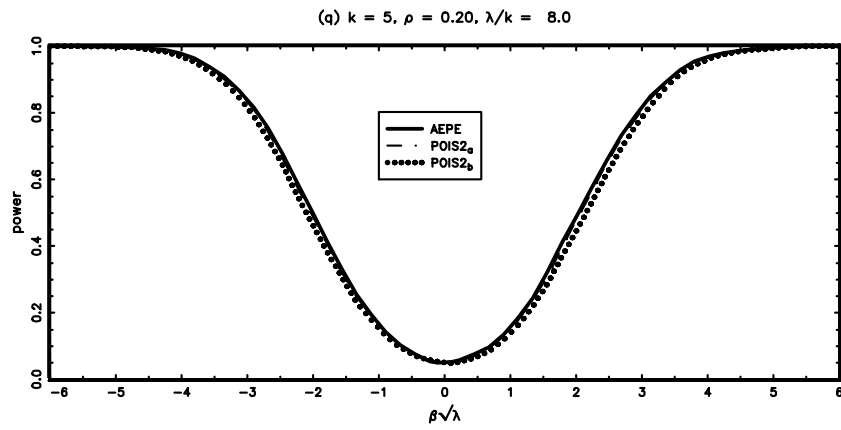
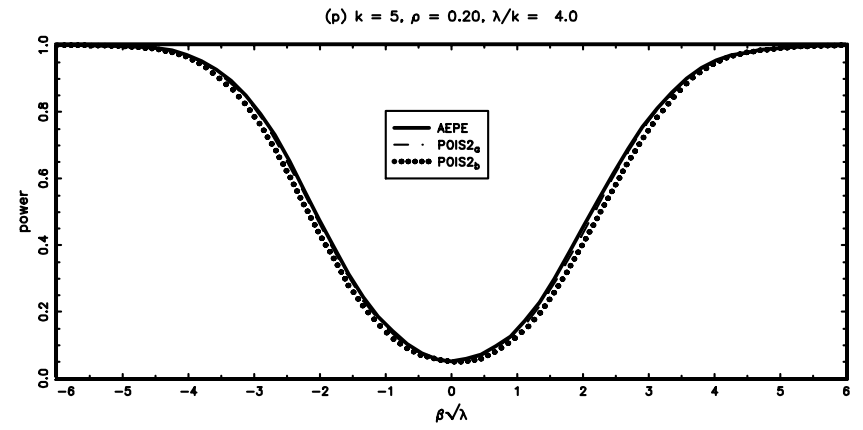
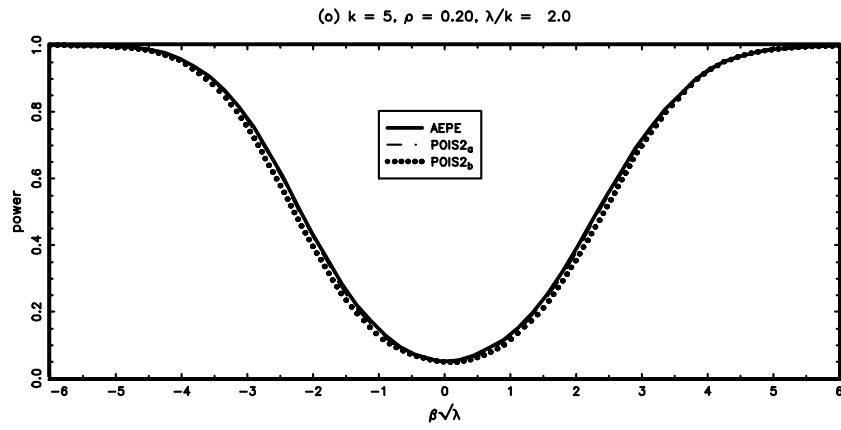
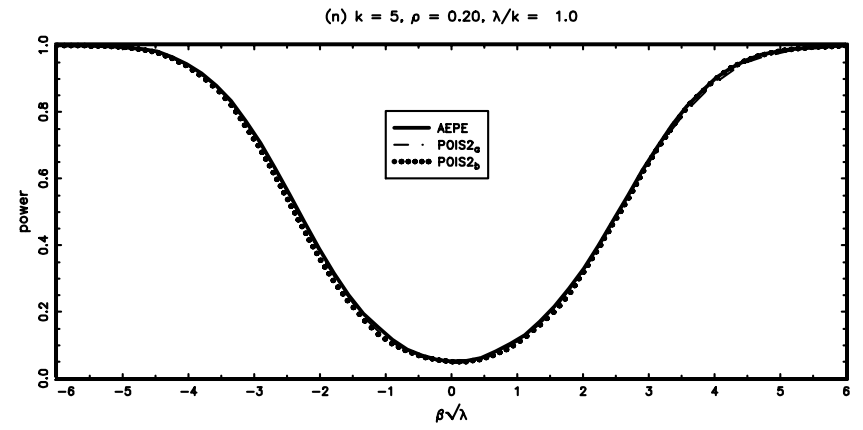
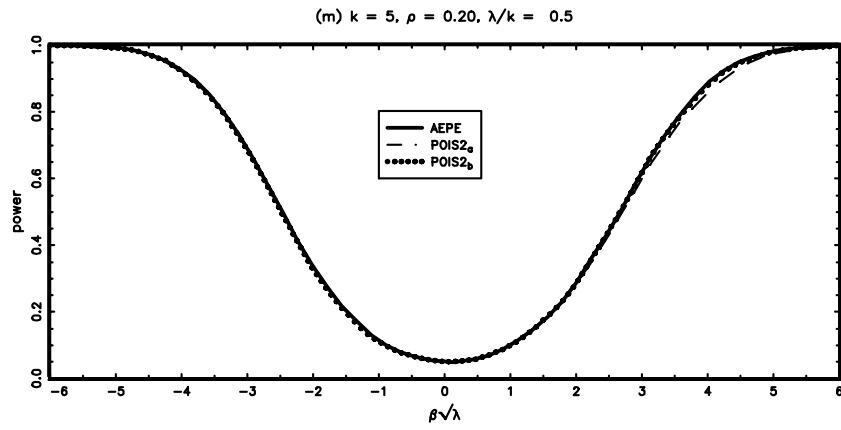


Figure S-6, ctd.



### Tables of 10%, 5%, and 1% Conditional Critical Values for the CLR Statistic, $k = 2 - 25$

The following tables provide critical values of Moreira's (2003) conditional likelihood ratio (CLR) test statistic for a given value of the conditioning statistic,  $Q_T$ , and the number of instruments,  $k$ . The table is presented as a function of  $\ln(Q_T/k)$  (first column of each table). The remaining columns give the 10%, 5%, and 1% critical values for the value of  $k$  indicated in the column header. The rows for which  $\ln(Q_T/k)$  is given by " $-\infty$ " and " $+\infty$ " provide the critical values for the limiting cases that  $Q_T = 0$  and  $Q_T \rightarrow \infty$ , respectively (these distributions are chi-squared with  $k$  and 1 degrees of freedom, respectively). Accurate critical values given the observed value of  $Q_T$  can be computed by linear interpolation.

***Estimated numerical accuracy:*** the actual quantile associated with these critical values is estimated to be within .001 percentage points of the stated critical value (this is the largest discrepancy; for most entries the discrepancy is less than .0002). These computations are based on numerical integration of the conditional distribution using the method described in Andrews, D.W.K., M. Moreira, and J.H. Stock, "Performance of Conditional Wald Tests in IV Regression," forthcoming, *Journal of Econometrics*.

	<b>k = 2</b>		<b>k = 3</b>		<b>k = 3</b>		<b>k = 4</b>		<b>k = 4</b>	
<b>ln(Q<sub>t</sub>/k)</b>	<b>10%</b>	<b>5%</b>	<b>1%</b>	<b>10%</b>	<b>5%</b>	<b>1%</b>	<b>10%</b>	<b>5%</b>	<b>1%</b>	
-∞	4.61	5.99	9.21	6.25	7.81	11.34	7.78	9.49	13.28	
-5.0	4.60	5.98	9.20	6.24	7.80	11.33	7.76	9.47	13.26	
-4.9	4.60	5.98	9.20	6.24	7.80	11.33	7.76	9.47	13.26	
-4.8	4.60	5.98	9.20	6.23	7.80	11.33	7.75	9.46	13.25	
-4.7	4.60	5.98	9.20	6.23	7.80	11.33	7.75	9.46	13.25	
-4.6	4.60	5.98	9.20	6.23	7.79	11.33	7.75	9.46	13.25	
-4.5	4.59	5.98	9.20	6.23	7.79	11.32	7.75	9.45	13.24	
-4.4	4.59	5.98	9.20	6.23	7.79	11.32	7.74	9.45	13.24	
-4.3	4.59	5.98	9.20	6.22	7.79	11.32	7.74	9.45	13.24	
-4.2	4.59	5.98	9.20	6.22	7.78	11.31	7.73	9.44	13.23	
-4.1	4.59	5.98	9.19	6.22	7.78	11.31	7.73	9.44	13.23	
-4.0	4.59	5.97	9.19	6.21	7.78	11.31	7.72	9.43	13.22	
-3.9	4.59	5.97	9.19	6.21	7.77	11.30	7.72	9.43	13.22	
-3.8	4.58	5.97	9.19	6.21	7.77	11.30	7.71	9.42	13.21	
-3.7	4.58	5.97	9.19	6.20	7.77	11.30	7.71	9.41	13.21	
-3.6	4.58	5.96	9.18	6.20	7.76	11.29	7.70	9.41	13.20	
-3.5	4.58	5.96	9.18	6.19	7.75	11.28	7.69	9.40	13.19	
-3.4	4.57	5.96	9.18	6.18	7.75	11.28	7.68	9.39	13.18	
-3.3	4.57	5.96	9.17	6.18	7.74	11.27	7.67	9.38	13.17	
-3.2	4.56	5.95	9.17	6.17	7.73	11.26	7.66	9.37	13.16	
-3.1	4.56	5.95	9.17	6.16	7.73	11.25	7.65	9.35	13.14	
-3.0	4.56	5.94	9.16	6.15	7.72	11.25	7.63	9.34	13.13	
-2.9	4.55	5.94	9.16	6.14	7.71	11.24	7.62	9.32	13.11	
-2.8	4.55	5.93	9.15	6.13	7.69	11.22	7.60	9.31	13.10	
-2.7	4.54	5.93	9.14	6.12	7.68	11.21	7.58	9.29	13.08	
-2.6	4.53	5.92	9.14	6.10	7.67	11.20	7.56	9.27	13.06	
-2.5	4.52	5.91	9.13	6.09	7.65	11.18	7.54	9.24	13.03	
-2.4	4.52	5.90	9.12	6.07	7.64	11.17	7.51	9.22	13.01	
-2.3	4.51	5.89	9.11	6.05	7.62	11.15	7.48	9.19	12.98	
-2.2	4.50	5.88	9.10	6.03	7.60	11.13	7.45	9.16	12.95	
-2.1	4.49	5.87	9.09	6.01	7.57	11.10	7.42	9.13	12.92	
-2.0	4.47	5.86	9.08	5.99	7.55	11.08	7.38	9.09	12.88	
-1.9	4.46	5.85	9.07	5.96	7.52	11.05	7.34	9.05	12.84	
-1.8	4.45	5.83	9.05	5.93	7.49	11.02	7.30	9.00	12.79	
-1.7	4.43	5.82	9.03	5.90	7.46	10.99	7.25	8.95	12.74	
-1.6	4.41	5.80	9.01	5.86	7.42	10.95	7.19	8.90	12.69	
-1.5	4.39	5.78	9.00	5.82	7.39	10.91	7.13	8.84	12.63	
-1.4	4.37	5.76	8.97	5.78	7.34	10.87	7.07	8.77	12.56	
-1.3	4.35	5.73	8.95	5.73	7.29	10.82	7.00	8.70	12.49	
-1.2	4.32	5.71	8.93	5.68	7.24	10.77	6.92	8.62	12.41	
-1.1	4.30	5.68	8.90	5.63	7.19	10.71	6.83	8.54	12.32	
-1.0	4.27	5.65	8.87	5.57	7.13	10.65	6.74	8.44	12.23	
-0.9	4.24	5.62	8.83	5.50	7.06	10.58	6.64	8.34	12.12	
-0.8	4.20	5.58	8.80	5.43	6.99	10.51	6.53	8.23	12.01	
-0.7	4.17	5.55	8.76	5.35	6.91	10.43	6.41	8.11	11.89	
-0.6	4.13	5.50	8.71	5.27	6.82	10.34	6.29	7.98	11.75	
-0.5	4.08	5.46	8.67	5.18	6.73	10.24	6.15	7.84	11.61	
-0.4	4.04	5.41	8.62	5.09	6.63	10.14	6.00	7.69	11.45	
-0.3	3.99	5.36	8.57	4.99	6.53	10.03	5.85	7.53	11.29	
-0.2	3.94	5.31	8.51	4.88	6.42	9.92	5.68	7.36	11.11	
-0.1	3.88	5.25	8.45	4.77	6.30	9.79	5.51	7.18	10.92	
0.0	3.83	5.19	8.39	4.65	6.18	9.66	5.33	6.99	10.71	
0.1	3.77	5.13	8.32	4.53	6.05	9.52	5.14	6.79	10.50	
0.2	3.71	5.07	8.25	4.40	5.91	9.38	4.95	6.58	10.28	
0.3	3.65	5.00	8.17	4.28	5.78	9.22	4.76	6.38	10.05	

0.4	3.59	4.93	8.10	4.15	5.64	9.07	4.58	6.17	9.82
0.5	3.52	4.86	8.02	4.03	5.50	8.91	4.39	5.97	9.58
0.6	3.46	4.79	7.94	3.91	5.36	8.75	4.22	5.77	9.35
0.7	3.40	4.72	7.86	3.80	5.23	8.60	4.06	5.58	9.12
0.8	3.34	4.65	7.77	3.69	5.10	8.44	3.90	5.40	8.90
0.9	3.29	4.59	7.69	3.58	4.98	8.29	3.77	5.24	8.69
1.0	3.23	4.52	7.62	3.49	4.87	8.15	3.64	5.09	8.50
1.1	3.18	4.46	7.54	3.41	4.77	8.02	3.54	4.95	8.32
1.2	3.14	4.41	7.47	3.33	4.67	7.89	3.44	4.83	8.16
1.3	3.09	4.36	7.40	3.26	4.59	7.78	3.36	4.72	8.01
1.4	3.06	4.31	7.34	3.20	4.51	7.67	3.28	4.63	7.88
1.5	3.02	4.26	7.28	3.15	4.44	7.58	3.22	4.55	7.76
1.6	2.99	4.22	7.22	3.10	4.38	7.49	3.17	4.47	7.65
1.7	2.96	4.19	7.17	3.06	4.33	7.41	3.12	4.41	7.55
1.8	2.94	4.15	7.12	3.02	4.28	7.34	3.07	4.35	7.46
1.9	2.91	4.12	7.08	2.99	4.24	7.27	3.04	4.30	7.39
2.0	2.89	4.10	7.04	2.96	4.20	7.21	3.00	4.25	7.31
2.1	2.87	4.07	7.00	2.94	4.16	7.16	2.97	4.21	7.25
2.2	2.86	4.05	6.97	2.91	4.13	7.11	2.94	4.18	7.19
2.3	2.84	4.03	6.94	2.89	4.10	7.07	2.92	4.14	7.14
2.4	2.83	4.01	6.91	2.88	4.08	7.03	2.90	4.11	7.09
2.5	2.82	4.00	6.89	2.86	4.06	6.99	2.88	4.09	7.05
2.6	2.81	3.98	6.87	2.84	4.03	6.96	2.86	4.06	7.01
2.7	2.80	3.97	6.85	2.83	4.02	6.93	2.85	4.04	6.97
2.8	2.79	3.96	6.83	2.82	4.00	6.90	2.83	4.02	6.94
2.9	2.78	3.95	6.81	2.81	3.98	6.88	2.82	4.00	6.91
3.0	2.77	3.94	6.79	2.80	3.97	6.85	2.81	3.99	6.88
3.1	2.77	3.93	6.78	2.79	3.96	6.83	2.80	3.97	6.86
3.2	2.76	3.92	6.76	2.78	3.95	6.81	2.79	3.96	6.84
3.3	2.76	3.91	6.75	2.77	3.94	6.80	2.78	3.95	6.82
3.4	2.75	3.91	6.74	2.77	3.93	6.78	2.77	3.94	6.80
3.5	2.75	3.90	6.73	2.76	3.92	6.77	2.77	3.93	6.79
3.6	2.74	3.89	6.72	2.76	3.91	6.76	2.76	3.92	6.77
3.7	2.74	3.89	6.71	2.75	3.91	6.74	2.76	3.91	6.76
3.8	2.74	3.88	6.71	2.75	3.90	6.73	2.75	3.91	6.75
3.9	2.73	3.88	6.70	2.74	3.89	6.72	2.75	3.90	6.74
4.0	2.73	3.88	6.69	2.74	3.89	6.72	2.74	3.89	6.73
4.1	2.73	3.87	6.69	2.74	3.88	6.71	2.74	3.89	6.72
4.2	2.73	3.87	6.68	2.73	3.88	6.70	2.74	3.89	6.71
4.3	2.72	3.87	6.68	2.73	3.88	6.70	2.73	3.88	6.70
4.4	2.72	3.87	6.67	2.73	3.87	6.69	2.73	3.88	6.70
4.5	2.72	3.86	6.67	2.73	3.87	6.68	2.73	3.87	6.69
4.6	2.72	3.86	6.67	2.72	3.87	6.68	2.73	3.87	6.69
4.7	2.72	3.86	6.66	2.72	3.86	6.67	2.72	3.87	6.68
4.8	2.72	3.86	6.66	2.72	3.86	6.67	2.72	3.87	6.68
4.9	2.72	3.86	6.66	2.72	3.86	6.67	2.72	3.86	6.67
5.0	2.71	3.85	6.66	2.72	3.86	6.67	2.72	3.86	6.67
5.1	2.71	3.85	6.65	2.72	3.86	6.66	2.72	3.86	6.67
5.2	2.71	3.85	6.65	2.72	3.86	6.66	2.72	3.86	6.66
5.3	2.71	3.85	6.65	2.71	3.85	6.66	2.72	3.86	6.66
5.4	2.71	3.85	6.65	2.71	3.85	6.65	2.71	3.85	6.66
5.5	2.71	3.85	6.65	2.71	3.85	6.65	2.71	3.85	6.66
5.6	2.71	3.85	6.65	2.71	3.85	6.65	2.71	3.85	6.65
5.7	2.71	3.85	6.65	2.71	3.85	6.65	2.71	3.85	6.65
5.8	2.71	3.85	6.64	2.71	3.85	6.65	2.71	3.85	6.65
5.9	2.71	3.85	6.64	2.71	3.85	6.65	2.71	3.85	6.65
6.0	2.71	3.85	6.64	2.71	3.85	6.64	2.71	3.85	6.65
+∞	2.71	3.84	6.63	2.71	3.84	6.63	2.71	3.84	6.63

	<b>k = 5</b>	<b>k = 5</b>	<b>k = 5</b>	<b>k = 6</b>	<b>k = 6</b>	<b>k = 6</b>	<b>k = 7</b>	<b>k = 7</b>	<b>k = 7</b>
<b>ln(Q<sub>T</sub>/k)</b>	<b>10%</b>	<b>5%</b>	<b>1%</b>	<b>10%</b>	<b>5%</b>	<b>1%</b>	<b>10%</b>	<b>5%</b>	<b>1%</b>
-∞	9.24	11.07	15.09	10.64	12.59	16.81	12.02	14.07	18.48
-5.0	9.21	11.04	15.06	10.61	12.56	16.78	11.98	14.03	18.44
-4.9	9.21	11.04	15.06	10.61	12.55	16.77	11.97	14.02	18.43
-4.8	9.20	11.04	15.05	10.60	12.55	16.77	11.97	14.02	18.43
-4.7	9.20	11.03	15.05	10.60	12.55	16.76	11.96	14.01	18.42
-4.6	9.20	11.03	15.05	10.59	12.54	16.76	11.96	14.01	18.42
-4.5	9.19	11.03	15.04	10.59	12.54	16.75	11.95	14.00	18.41
-4.4	9.19	11.02	15.04	10.58	12.53	16.75	11.94	13.99	18.40
-4.3	9.18	11.02	15.03	10.58	12.52	16.74	11.94	13.99	18.39
-4.2	9.18	11.01	15.03	10.57	12.52	16.73	11.93	13.98	18.39
-4.1	9.17	11.00	15.02	10.56	12.51	16.73	11.92	13.97	18.37
-4.0	9.16	11.00	15.01	10.55	12.50	16.72	11.91	13.96	18.37
-3.9	9.16	10.99	15.01	10.54	12.49	16.71	11.90	13.95	18.35
-3.8	9.15	10.98	15.00	10.53	12.48	16.70	11.88	13.93	18.34
-3.7	9.14	10.97	14.99	10.52	12.47	16.69	11.87	13.92	18.33
-3.6	9.13	10.96	14.98	10.51	12.45	16.68	11.85	13.90	18.31
-3.5	9.12	10.95	14.97	10.49	12.44	16.66	11.84	13.89	18.29
-3.4	9.10	10.94	14.95	10.48	12.42	16.65	11.82	13.87	18.28
-3.3	9.09	10.92	14.94	10.46	12.41	16.63	11.80	13.85	18.26
-3.2	9.07	10.91	14.92	10.44	12.39	16.61	11.77	13.82	18.23
-3.1	9.06	10.89	14.91	10.42	12.37	16.59	11.75	13.80	18.21
-3.0	9.04	10.87	14.89	10.40	12.34	16.56	11.72	13.77	18.18
-2.9	9.02	10.85	14.87	10.37	12.32	16.54	11.69	13.74	18.15
-2.8	8.99	10.83	14.85	10.34	12.29	16.51	11.65	13.70	18.11
-2.7	8.97	10.80	14.82	10.31	12.26	16.48	11.62	13.67	18.07
-2.6	8.94	10.78	14.79	10.28	12.22	16.44	11.57	13.62	18.03
-2.5	8.91	10.75	14.76	10.24	12.18	16.40	11.53	13.58	17.99
-2.4	8.88	10.71	14.73	10.20	12.14	16.36	11.48	13.53	17.93
-2.3	8.84	10.67	14.69	10.15	12.10	16.31	11.42	13.47	17.88
-2.2	8.80	10.63	14.65	10.10	12.04	16.26	11.36	13.41	17.82
-2.1	8.75	10.59	14.60	10.04	11.99	16.21	11.29	13.34	17.75
-2.0	8.70	10.54	14.55	9.98	11.92	16.14	11.22	13.27	17.67
-1.9	8.65	10.48	14.50	9.91	11.86	16.07	11.13	13.18	17.59
-1.8	8.59	10.42	14.44	9.83	11.78	16.00	11.04	13.09	17.50
-1.7	8.52	10.36	14.37	9.75	11.70	15.91	10.94	12.99	17.40
-1.6	8.45	10.28	14.30	9.66	11.60	15.82	10.83	12.88	17.29
-1.5	8.37	10.20	14.22	9.56	11.50	15.72	10.71	12.76	17.16
-1.4	8.28	10.11	14.13	9.45	11.39	15.61	10.58	12.62	17.03
-1.3	8.19	10.02	14.03	9.33	11.27	15.49	10.43	12.48	16.88
-1.2	8.08	9.91	13.92	9.19	11.14	15.35	10.27	12.32	16.72
-1.1	7.97	9.80	13.80	9.05	10.99	15.20	10.10	12.14	16.54
-1.0	7.84	9.67	13.68	8.89	10.83	15.04	9.90	11.95	16.35
-0.9	7.71	9.53	13.54	8.72	10.66	14.86	9.69	11.74	16.13
-0.8	7.56	9.38	13.38	8.53	10.47	14.67	9.47	11.50	15.90
-0.7	7.40	9.22	13.22	8.33	10.26	14.46	9.22	11.25	15.64
-0.6	7.22	9.04	13.04	8.11	10.04	14.23	8.95	10.98	15.37
-0.5	7.04	8.85	12.84	7.87	9.79	13.98	8.66	10.69	15.07
-0.4	6.84	8.65	12.63	7.61	9.53	13.72	8.35	10.37	14.74
-0.3	6.62	8.43	12.40	7.34	9.26	13.43	8.02	10.03	14.39
-0.2	6.40	8.19	12.16	7.06	8.96	13.12	7.67	9.67	14.02
-0.1	6.16	7.95	11.90	6.76	8.65	12.80	7.31	9.29	13.62
0.0	5.92	7.69	11.63	6.44	8.32	12.45	6.93	8.90	13.20
0.1	5.66	7.42	11.34	6.12	7.98	12.09	6.54	8.49	12.76
0.2	5.41	7.15	11.04	5.80	7.64	11.71	6.15	8.07	12.31
0.3	5.16	6.87	10.73	5.49	7.29	11.33	5.77	7.66	11.85
0.4	4.91	6.60	10.42	5.18	6.95	10.94	5.41	7.25	11.39

0.5	4.67	6.33	10.11	4.89	6.62	10.56	5.07	6.87	10.94
0.6	4.45	6.07	9.81	4.62	6.31	10.19	4.76	6.51	10.50
0.7	4.24	5.83	9.52	4.38	6.03	9.84	4.49	6.18	10.09
0.8	4.05	5.61	9.24	4.16	5.77	9.51	4.25	5.89	9.72
0.9	3.89	5.41	8.98	3.98	5.54	9.21	4.04	5.64	9.39
1.0	3.75	5.23	8.75	3.82	5.34	8.93	3.87	5.42	9.08
1.1	3.62	5.07	8.53	3.68	5.16	8.69	3.72	5.23	8.82
1.2	3.51	4.93	8.34	3.56	5.01	8.48	3.60	5.06	8.58
1.3	3.42	4.81	8.17	3.46	4.88	8.29	3.49	4.92	8.38
1.4	3.34	4.71	8.01	3.37	4.76	8.11	3.40	4.80	8.19
1.5	3.27	4.61	7.88	3.30	4.66	7.96	3.32	4.70	8.03
1.6	3.21	4.53	7.75	3.23	4.57	7.83	3.25	4.60	7.89
1.7	3.15	4.46	7.64	3.18	4.49	7.71	3.19	4.52	7.76
1.8	3.10	4.40	7.54	3.13	4.43	7.60	3.14	4.45	7.64
1.9	3.06	4.34	7.46	3.08	4.37	7.50	3.09	4.39	7.54
2.0	3.03	4.29	7.37	3.04	4.31	7.42	3.05	4.33	7.45
2.1	2.99	4.24	7.30	3.01	4.26	7.34	3.02	4.28	7.37
2.2	2.96	4.20	7.24	2.98	4.22	7.27	2.99	4.23	7.30
2.3	2.94	4.17	7.18	2.95	4.18	7.21	2.96	4.19	7.23
2.4	2.91	4.13	7.13	2.92	4.15	7.15	2.93	4.16	7.17
2.5	2.89	4.10	7.08	2.90	4.12	7.10	2.91	4.13	7.12
2.6	2.87	4.08	7.04	2.88	4.09	7.06	2.89	4.10	7.07
2.7	2.86	4.06	7.00	2.86	4.07	7.01	2.87	4.07	7.03
2.8	2.84	4.03	6.96	2.85	4.04	6.98	2.85	4.05	6.99
2.9	2.83	4.02	6.93	2.83	4.02	6.94	2.84	4.03	6.96
3.0	2.82	4.00	6.90	2.82	4.01	6.91	2.83	4.01	6.92
3.1	2.81	3.98	6.88	2.81	3.99	6.89	2.81	3.99	6.90
3.2	2.80	3.97	6.85	2.80	3.98	6.86	2.80	3.98	6.87
3.3	2.79	3.96	6.83	2.79	3.96	6.84	2.79	3.97	6.85
3.4	2.78	3.95	6.81	2.78	3.95	6.82	2.78	3.95	6.83
3.5	2.77	3.94	6.80	2.78	3.94	6.80	2.78	3.94	6.81
3.6	2.77	3.93	6.78	2.77	3.93	6.79	2.77	3.93	6.79
3.7	2.76	3.92	6.77	2.76	3.92	6.77	2.76	3.92	6.78
3.8	2.75	3.91	6.75	2.76	3.91	6.76	2.76	3.92	6.76
3.9	2.75	3.90	6.74	2.75	3.91	6.75	2.75	3.91	6.75
4.0	2.75	3.90	6.73	2.75	3.90	6.74	2.75	3.90	6.74
4.1	2.74	3.89	6.72	2.74	3.90	6.73	2.74	3.90	6.73
4.2	2.74	3.89	6.72	2.74	3.89	6.72	2.74	3.89	6.72
4.3	2.74	3.88	6.71	2.74	3.89	6.71	2.74	3.89	6.71
4.4	2.73	3.88	6.70	2.73	3.88	6.70	2.73	3.88	6.70
4.5	2.73	3.88	6.69	2.73	3.88	6.70	2.73	3.88	6.70
4.6	2.73	3.87	6.69	2.73	3.87	6.69	2.73	3.87	6.69
4.7	2.73	3.87	6.68	2.73	3.87	6.69	2.73	3.87	6.69
4.8	2.72	3.87	6.68	2.72	3.87	6.68	2.72	3.87	6.68
4.9	2.72	3.86	6.67	2.72	3.87	6.68	2.72	3.87	6.68
5.0	2.72	3.86	6.67	2.72	3.86	6.67	2.72	3.86	6.67
5.1	2.72	3.86	6.67	2.72	3.86	6.67	2.72	3.86	6.67
5.2	2.72	3.86	6.66	2.72	3.86	6.67	2.72	3.86	6.67
5.3	2.72	3.86	6.66	2.72	3.86	6.66	2.72	3.86	6.66
5.4	2.72	3.86	6.66	2.72	3.86	6.66	2.72	3.86	6.66
5.5	2.71	3.85	6.66	2.71	3.85	6.66	2.71	3.85	6.66
5.6	2.71	3.85	6.65	2.71	3.85	6.66	2.71	3.85	6.66
5.7	2.71	3.85	6.65	2.71	3.85	6.65	2.71	3.85	6.65
5.8	2.71	3.85	6.65	2.71	3.85	6.65	2.71	3.85	6.65
5.9	2.71	3.85	6.65	2.71	3.85	6.65	2.71	3.85	6.65
6.0	2.71	3.85	6.65	2.71	3.85	6.65	2.71	3.85	6.65
+∞	2.71	3.84	6.63	2.71	3.84	6.63	2.71	3.84	6.63

	<b>k = 8</b>	<b>k = 8</b>	<b>k = 8</b>	<b>k = 9</b>	<b>k = 9</b>	<b>k = 9</b>	<b>k = 10</b>	<b>k = 10</b>	<b>k = 10</b>
<b>ln(Q<sub>T</sub>/k)</b>	<b>10%</b>	<b>5%</b>	<b>1%</b>	<b>10%</b>	<b>5%</b>	<b>1%</b>	<b>10%</b>	<b>5%</b>	<b>1%</b>
-∞	13.36	15.51	20.09	14.68	16.92	21.67	15.99	18.31	23.21
-5.0	13.31	15.46	20.04	14.63	16.87	21.61	15.93	18.25	23.15
-4.9	13.31	15.45	20.04	14.62	16.86	21.61	15.92	18.24	23.14
-4.8	13.30	15.45	20.03	14.62	16.85	21.60	15.91	18.23	23.14
-4.7	13.30	15.44	20.03	14.61	16.85	21.59	15.91	18.23	23.13
-4.6	13.29	15.44	20.02	14.60	16.84	21.58	15.90	18.22	23.12
-4.5	13.28	15.43	20.01	14.59	16.83	21.58	15.89	18.21	23.11
-4.4	13.28	15.42	20.00	14.59	16.82	21.57	15.88	18.20	23.10
-4.3	13.27	15.41	19.99	14.58	16.81	21.56	15.87	18.19	23.09
-4.2	13.26	15.40	19.99	14.56	16.80	21.55	15.85	18.17	23.07
-4.1	13.25	15.39	19.98	14.55	16.79	21.53	15.84	18.16	23.06
-4.0	13.23	15.38	19.96	14.54	16.77	21.52	15.82	18.14	23.05
-3.9	13.22	15.37	19.95	14.52	16.76	21.50	15.81	18.13	23.03
-3.8	13.21	15.35	19.93	14.51	16.74	21.49	15.79	18.11	23.01
-3.7	13.19	15.33	19.92	14.49	16.72	21.47	15.77	18.08	22.99
-3.6	13.17	15.32	19.90	14.47	16.70	21.45	15.74	18.06	22.97
-3.5	13.15	15.30	19.88	14.44	16.68	21.42	15.72	18.04	22.94
-3.4	13.13	15.27	19.86	14.42	16.65	21.40	15.69	18.01	22.91
-3.3	13.10	15.25	19.83	14.39	16.62	21.37	15.66	17.98	22.88
-3.2	13.08	15.22	19.80	14.36	16.59	21.34	15.62	17.94	22.84
-3.1	13.05	15.19	19.77	14.32	16.56	21.31	15.58	17.90	22.80
-3.0	13.01	15.16	19.74	14.29	16.52	21.27	15.54	17.86	22.76
-2.9	12.98	15.12	19.71	14.25	16.48	21.23	15.49	17.81	22.71
-2.8	12.94	15.08	19.67	14.20	16.43	21.18	15.44	17.76	22.67
-2.7	12.89	15.04	19.62	14.15	16.38	21.13	15.39	17.71	22.61
-2.6	12.85	14.99	19.57	14.09	16.33	21.07	15.32	17.64	22.54
-2.5	12.79	14.94	19.52	14.03	16.27	21.01	15.25	17.57	22.48
-2.4	12.73	14.88	19.46	13.96	16.20	20.95	15.18	17.50	22.40
-2.3	12.67	14.81	19.39	13.89	16.12	20.87	15.09	17.41	22.31
-2.2	12.59	14.74	19.32	13.81	16.04	20.79	15.00	17.32	22.22
-2.1	12.51	14.66	19.24	13.71	15.95	20.70	14.90	17.22	22.11
-2.0	12.43	14.57	19.15	13.61	15.85	20.59	14.78	17.10	22.00
-1.9	12.33	14.47	19.05	13.50	15.74	20.48	14.66	16.98	21.88
-1.8	12.22	14.37	18.95	13.38	15.61	20.36	14.52	16.84	21.74
-1.7	12.11	14.25	18.83	13.25	15.48	20.23	14.37	16.69	21.58
-1.6	11.98	14.12	18.70	13.10	15.33	20.08	14.20	16.52	21.42
-1.5	11.83	13.98	18.56	12.93	15.17	19.91	14.02	16.33	21.23
-1.4	11.68	13.82	18.40	12.75	14.99	19.73	13.81	16.13	21.03
-1.3	11.51	13.65	18.23	12.56	14.79	19.53	13.59	15.91	20.80
-1.2	11.32	13.46	18.04	12.34	14.57	19.32	13.35	15.66	20.56
-1.1	11.11	13.25	17.83	12.11	14.33	19.07	13.08	15.39	20.29
-1.0	10.89	13.02	17.60	11.85	14.07	18.81	12.79	15.10	19.99
-0.9	10.64	12.78	17.35	11.56	13.79	18.52	12.47	14.78	19.67
-0.8	10.37	12.51	17.07	11.25	13.48	18.21	12.12	14.42	19.31
-0.7	10.08	12.21	16.77	10.92	13.14	17.86	11.73	14.04	18.92
-0.6	9.76	11.89	16.45	10.55	12.77	17.49	11.32	13.62	18.50
-0.5	9.42	11.54	16.10	10.16	12.37	17.08	10.88	13.17	18.04
-0.4	9.06	11.17	15.71	9.74	11.94	16.64	10.40	12.68	17.54
-0.3	8.67	10.77	15.30	9.29	11.48	16.17	9.88	12.16	17.00
-0.2	8.25	10.35	14.86	8.81	10.99	15.66	9.34	11.60	16.43
-0.1	7.82	9.90	14.39	8.31	10.47	15.12	8.77	11.01	15.81
0.0	7.37	9.43	13.90	7.79	9.93	14.55	8.19	10.40	15.17
0.1	6.92	8.95	13.38	7.27	9.38	13.96	7.60	9.78	14.50
0.2	6.47	8.46	12.85	6.75	8.82	13.35	7.01	9.15	13.81
0.3	6.02	7.98	12.32	6.25	8.27	12.73	6.45	8.53	13.12
0.4	5.61	7.51	11.78	5.78	7.74	12.13	5.93	7.95	12.45



0.5	5.22	7.07	11.26	5.35	7.25	11.55	5.46	7.40	11.80
0.6	4.87	6.67	10.77	4.97	6.80	11.00	5.05	6.92	11.20
0.7	4.57	6.30	10.31	4.64	6.41	10.49	4.70	6.50	10.66
0.8	4.31	5.99	9.90	4.37	6.07	10.05	4.41	6.14	10.17
0.9	4.10	5.71	9.53	4.14	5.78	9.65	4.17	5.83	9.75
1.0	3.91	5.48	9.20	3.95	5.53	9.31	3.97	5.57	9.39
1.1	3.76	5.28	8.92	3.79	5.32	9.00	3.81	5.36	9.07
1.2	3.63	5.11	8.67	3.65	5.15	8.74	3.67	5.17	8.80
1.3	3.52	4.96	8.45	3.54	4.99	8.51	3.55	5.02	8.56
1.4	3.42	4.83	8.26	3.44	4.86	8.31	3.45	4.88	8.35
1.5	3.34	4.72	8.08	3.36	4.75	8.13	3.37	4.76	8.16
1.6	3.27	4.63	7.93	3.28	4.65	7.97	3.29	4.66	8.00
1.7	3.21	4.54	7.80	3.22	4.56	7.83	3.23	4.57	7.85
1.8	3.15	4.47	7.68	3.16	4.48	7.70	3.17	4.49	7.73
1.9	3.10	4.40	7.57	3.11	4.41	7.59	3.12	4.42	7.62
2.0	3.06	4.34	7.48	3.07	4.35	7.50	3.08	4.36	7.51
2.1	3.03	4.29	7.39	3.03	4.30	7.41	3.04	4.31	7.42
2.2	2.99	4.24	7.32	3.00	4.25	7.33	3.00	4.26	7.34
2.3	2.96	4.20	7.25	2.97	4.21	7.26	2.97	4.22	7.27
2.4	2.94	4.17	7.19	2.94	4.17	7.20	2.94	4.18	7.21
2.5	2.91	4.13	7.13	2.92	4.14	7.14	2.92	4.14	7.15
2.6	2.89	4.10	7.08	2.90	4.11	7.09	2.90	4.11	7.10
2.7	2.87	4.08	7.04	2.88	4.08	7.05	2.88	4.09	7.05
2.8	2.86	4.05	7.00	2.86	4.06	7.01	2.86	4.06	7.01
2.9	2.84	4.03	6.96	2.84	4.04	6.97	2.85	4.04	6.98
3.0	2.83	4.01	6.93	2.83	4.02	6.94	2.83	4.02	6.94
3.1	2.82	4.00	6.90	2.82	4.00	6.91	2.82	4.00	6.91
3.2	2.81	3.98	6.88	2.81	3.98	6.88	2.81	3.99	6.88
3.3	2.80	3.97	6.85	2.80	3.97	6.86	2.80	3.97	6.86
3.4	2.79	3.96	6.83	2.79	3.96	6.83	2.79	3.96	6.84
3.5	2.78	3.94	6.81	2.78	3.95	6.82	2.78	3.95	6.82
3.6	2.77	3.93	6.80	2.77	3.94	6.80	2.77	3.94	6.80
3.7	2.77	3.93	6.78	2.77	3.93	6.78	2.77	3.93	6.78
3.8	2.76	3.92	6.77	2.76	3.92	6.77	2.76	3.92	6.77
3.9	2.75	3.91	6.75	2.75	3.91	6.76	2.76	3.91	6.76
4.0	2.75	3.90	6.74	2.75	3.90	6.74	2.75	3.91	6.75
4.1	2.75	3.90	6.73	2.75	3.90	6.73	2.75	3.90	6.73
4.2	2.74	3.89	6.72	2.74	3.89	6.72	2.74	3.89	6.73
4.3	2.74	3.89	6.71	2.74	3.89	6.72	2.74	3.89	6.72
4.4	2.73	3.88	6.71	2.74	3.88	6.71	2.74	3.88	6.71
4.5	2.73	3.88	6.70	2.73	3.88	6.70	2.73	3.88	6.70
4.6	2.73	3.88	6.69	2.73	3.88	6.70	2.73	3.88	6.70
4.7	2.73	3.87	6.69	2.73	3.87	6.69	2.73	3.87	6.69
4.8	2.73	3.87	6.68	2.73	3.87	6.68	2.73	3.87	6.68
4.9	2.72	3.87	6.68	2.72	3.87	6.68	2.72	3.87	6.68
5.0	2.72	3.86	6.67	2.72	3.86	6.67	2.72	3.86	6.68
5.1	2.72	3.86	6.67	2.72	3.86	6.67	2.72	3.86	6.67
5.2	2.72	3.86	6.67	2.72	3.86	6.67	2.72	3.86	6.67
5.3	2.72	3.86	6.66	2.72	3.86	6.66	2.72	3.86	6.67
5.4	2.72	3.86	6.66	2.72	3.86	6.66	2.72	3.86	6.66
5.5	2.72	3.86	6.66	2.72	3.86	6.66	2.72	3.86	6.66
5.6	2.71	3.85	6.66	2.71	3.85	6.66	2.71	3.85	6.66
5.7	2.71	3.85	6.65	2.71	3.85	6.65	2.71	3.85	6.66
5.8	2.71	3.85	6.65	2.71	3.85	6.65	2.71	3.85	6.65
5.9	2.71	3.85	6.65	2.71	3.85	6.65	2.71	3.85	6.65
6.0	2.71	3.85	6.65	2.71	3.85	6.65	2.71	3.85	6.65
+∞	2.71	3.84	6.63	2.71	3.84	6.63	2.71	3.84	6.63

	<b>k =11</b>	<b>k =11</b>	<b>k =11</b>	<b>k =12</b>	<b>k =12</b>	<b>k =12</b>	<b>k =13</b>	<b>k =13</b>	<b>k =13</b>
<b>ln(Q<sub>T</sub>/k)</b>	<b>10%</b>	<b>5%</b>	<b>1%</b>	<b>10%</b>	<b>5%</b>	<b>1%</b>	<b>10%</b>	<b>5%</b>	<b>1%</b>
-∞	17.28	19.68	24.72	18.55	21.03	26.22	19.81	22.36	27.69
-5.0	17.21	19.61	24.66	18.48	20.95	26.14	19.73	22.28	27.61
-4.9	17.20	19.60	24.65	18.47	20.94	26.13	19.72	22.27	27.60
-4.8	17.19	19.59	24.64	18.46	20.94	26.13	19.71	22.26	27.59
-4.7	17.18	19.58	24.63	18.45	20.93	26.12	19.70	22.25	27.58
-4.6	17.17	19.57	24.63	18.44	20.92	26.10	19.69	22.24	27.57
-4.5	17.16	19.56	24.61	18.43	20.90	26.10	19.68	22.23	27.56
-4.4	17.15	19.55	24.60	18.41	20.89	26.08	19.66	22.21	27.54
-4.3	17.14	19.54	24.59	18.40	20.88	26.07	19.65	22.20	27.53
-4.2	17.13	19.52	24.57	18.38	20.86	26.05	19.63	22.18	27.51
-4.1	17.11	19.51	24.56	18.37	20.84	26.03	19.61	22.16	27.49
-4.0	17.09	19.49	24.54	18.35	20.82	26.01	19.59	22.14	27.47
-3.9	17.07	19.47	24.52	18.33	20.80	25.99	19.57	22.12	27.44
-3.8	17.05	19.45	24.50	18.30	20.78	25.97	19.54	22.09	27.42
-3.7	17.03	19.43	24.48	18.28	20.75	25.95	19.52	22.07	27.39
-3.6	17.00	19.40	24.45	18.25	20.73	25.92	19.48	22.04	27.36
-3.5	16.97	19.37	24.42	18.22	20.69	25.88	19.45	22.00	27.33
-3.4	16.94	19.34	24.39	18.18	20.66	25.85	19.41	21.96	27.29
-3.3	16.91	19.31	24.36	18.14	20.62	25.81	19.37	21.92	27.25
-3.2	16.87	19.27	24.32	18.10	20.58	25.77	19.32	21.87	27.20
-3.1	16.83	19.23	24.28	18.06	20.53	25.72	19.27	21.82	27.15
-3.0	16.78	19.18	24.23	18.00	20.48	25.67	19.22	21.77	27.09
-2.9	16.73	19.13	24.18	17.95	20.42	25.61	19.15	21.70	27.03
-2.8	16.67	19.07	24.12	17.88	20.36	25.55	19.08	21.63	26.96
-2.7	16.61	19.01	24.06	17.81	20.29	25.48	19.01	21.56	26.88
-2.6	16.54	18.94	23.99	17.74	20.21	25.40	18.92	21.47	26.80
-2.5	16.46	18.86	23.91	17.65	20.13	25.32	18.83	21.38	26.71
-2.4	16.37	18.77	23.82	17.56	20.03	25.22	18.73	21.28	26.61
-2.3	16.28	18.68	23.73	17.45	19.93	25.12	18.62	21.17	26.49
-2.2	16.18	18.58	23.62	17.34	19.82	25.00	18.49	21.04	26.37
-2.1	16.06	18.46	23.51	17.21	19.69	24.88	18.35	20.90	26.23
-2.0	15.94	18.33	23.38	17.07	19.55	24.74	18.20	20.75	26.08
-1.9	15.80	18.20	23.24	16.92	19.40	24.59	18.03	20.58	25.91
-1.8	15.64	18.04	23.09	16.75	19.23	24.42	17.85	20.40	25.72
-1.7	15.47	17.87	22.92	16.57	19.04	24.23	17.65	20.19	25.52
-1.6	15.29	17.69	22.73	16.36	18.84	24.02	17.42	19.97	25.29
-1.5	15.08	17.48	22.53	16.13	18.61	23.79	17.17	19.72	25.05
-1.4	14.86	17.25	22.30	15.89	18.36	23.55	16.90	19.45	24.77
-1.3	14.61	17.00	22.05	15.61	18.09	23.27	16.60	19.15	24.47
-1.2	14.34	16.73	21.78	15.31	17.78	22.97	16.28	18.82	24.14
-1.1	14.04	16.43	21.48	14.98	17.45	22.64	15.91	18.46	23.78
-1.0	13.71	16.10	21.14	14.62	17.09	22.27	15.52	18.06	23.38
-0.9	13.35	15.74	20.78	14.23	16.69	21.87	15.09	17.63	22.94
-0.8	12.96	15.35	20.38	13.79	16.26	21.43	14.61	17.15	22.46
-0.7	12.54	14.92	19.95	13.32	15.78	20.95	14.10	16.63	21.93
-0.6	12.07	14.45	19.47	12.81	15.27	20.43	13.54	16.06	21.36
-0.5	11.57	13.95	18.96	12.26	14.71	19.86	12.93	15.45	20.74
-0.4	11.04	13.40	18.40	11.66	14.10	19.25	12.27	14.79	20.06
-0.3	10.46	12.82	17.80	11.03	13.45	18.58	11.58	14.07	19.33
-0.2	9.85	12.19	17.16	10.35	12.76	17.87	10.83	13.32	18.55
-0.1	9.22	11.54	16.47	9.65	12.04	17.11	10.06	12.52	17.72
0.0	8.56	10.85	15.75	8.92	11.28	16.31	9.26	11.69	16.85
0.1	7.90	10.15	15.01	8.19	10.51	15.49	8.46	10.84	15.95
0.2	7.25	9.45	14.24	7.47	9.74	14.64	7.68	10.00	15.02
0.3	6.63	8.77	13.48	6.80	8.99	13.81	6.95	9.19	14.11
0.4	6.06	8.13	12.73	6.18	8.29	12.99	6.28	8.44	13.24

0.5	5.55	7.54	12.03	5.63	7.66	12.23	5.71	7.77	12.41
0.6	5.11	7.02	11.38	5.17	7.11	11.54	5.22	7.18	11.68
0.7	4.75	6.57	10.79	4.79	6.63	10.92	4.83	6.69	11.03
0.8	4.45	6.19	10.29	4.48	6.24	10.38	4.51	6.28	10.47
0.9	4.20	5.88	9.84	4.23	5.92	9.92	4.25	5.95	9.99
1.0	4.00	5.61	9.46	4.02	5.64	9.53	4.03	5.67	9.58
1.1	3.83	5.39	9.13	3.85	5.42	9.19	3.86	5.44	9.23
1.2	3.69	5.20	8.85	3.70	5.22	8.89	3.71	5.24	8.93
1.3	3.57	5.04	8.60	3.58	5.06	8.64	3.59	5.07	8.67
1.4	3.47	4.90	8.38	3.48	4.91	8.41	3.48	4.93	8.44
1.5	3.38	4.78	8.19	3.39	4.79	8.22	3.39	4.80	8.24
1.6	3.30	4.67	8.03	3.31	4.69	8.05	3.31	4.69	8.07
1.7	3.23	4.58	7.88	3.24	4.59	7.89	3.25	4.60	7.91
1.8	3.18	4.50	7.75	3.18	4.51	7.76	3.19	4.52	7.78
1.9	3.13	4.43	7.63	3.13	4.44	7.64	3.13	4.44	7.65
2.0	3.08	4.37	7.53	3.08	4.37	7.54	3.09	4.38	7.55
2.1	3.04	4.31	7.44	3.04	4.32	7.44	3.05	4.32	7.45
2.2	3.01	4.26	7.35	3.01	4.27	7.36	3.01	4.27	7.37
2.3	2.97	4.22	7.28	2.98	4.23	7.29	2.98	4.23	7.29
2.4	2.95	4.18	7.22	2.95	4.19	7.22	2.95	4.19	7.23
2.5	2.92	4.15	7.16	2.92	4.15	7.16	2.93	4.15	7.17
2.6	2.90	4.12	7.11	2.90	4.12	7.11	2.90	4.12	7.11
2.7	2.88	4.09	7.06	2.88	4.09	7.06	2.88	4.09	7.07
2.8	2.86	4.06	7.02	2.86	4.07	7.02	2.87	4.07	7.02
2.9	2.85	4.04	6.98	2.85	4.04	6.98	2.85	4.05	6.99
3.0	2.83	4.02	6.94	2.83	4.02	6.95	2.84	4.03	6.95
3.1	2.82	4.00	6.91	2.82	4.01	6.92	2.82	4.01	6.92
3.2	2.81	3.99	6.89	2.81	3.99	6.89	2.81	3.99	6.89
3.3	2.80	3.97	6.86	2.80	3.98	6.87	2.80	3.98	6.87
3.4	2.79	3.96	6.84	2.79	3.96	6.84	2.79	3.96	6.84
3.5	2.78	3.95	6.82	2.78	3.95	6.82	2.78	3.95	6.82
3.6	2.77	3.94	6.80	2.77	3.94	6.80	2.78	3.94	6.81
3.7	2.77	3.93	6.79	2.77	3.93	6.79	2.77	3.93	6.79
3.8	2.76	3.92	6.77	2.76	3.92	6.77	2.76	3.92	6.78
3.9	2.76	3.91	6.76	2.76	3.91	6.76	2.76	3.91	6.76
4.0	2.75	3.91	6.75	2.75	3.91	6.75	2.75	3.91	6.75
4.1	2.75	3.90	6.73	2.75	3.90	6.74	2.75	3.90	6.74
4.2	2.74	3.89	6.73	2.74	3.89	6.73	2.74	3.90	6.73
4.3	2.74	3.89	6.72	2.74	3.89	6.72	2.74	3.89	6.72
4.4	2.74	3.88	6.71	2.74	3.88	6.71	2.74	3.89	6.71
4.5	2.73	3.88	6.70	2.73	3.88	6.70	2.73	3.88	6.70
4.6	2.73	3.88	6.70	2.73	3.88	6.70	2.73	3.88	6.70
4.7	2.73	3.87	6.69	2.73	3.87	6.69	2.73	3.87	6.69
4.8	2.73	3.87	6.68	2.73	3.87	6.69	2.73	3.87	6.69
4.9	2.72	3.87	6.68	2.72	3.87	6.68	2.72	3.87	6.68
5.0	2.72	3.87	6.68	2.72	3.87	6.68	2.72	3.87	6.68
5.1	2.72	3.86	6.67	2.72	3.86	6.67	2.72	3.86	6.67
5.2	2.72	3.86	6.67	2.72	3.86	6.67	2.72	3.86	6.67
5.3	2.72	3.86	6.66	2.72	3.86	6.66	2.72	3.86	6.66
5.4	2.72	3.86	6.66	2.72	3.86	6.66	2.72	3.86	6.66
5.5	2.72	3.86	6.66	2.72	3.86	6.66	2.72	3.86	6.66
5.6	2.71	3.85	6.66	2.71	3.85	6.66	2.71	3.85	6.66
5.7	2.71	3.85	6.66	2.71	3.85	6.66	2.71	3.85	6.65
5.8	2.71	3.85	6.65	2.71	3.85	6.65	2.71	3.85	6.65
5.9	2.71	3.85	6.65	2.71	3.85	6.65	2.71	3.85	6.65
6.0	2.71	3.85	6.65	2.71	3.85	6.65	2.71	3.85	6.65
+∞	2.71	3.84	6.63	2.71	3.84	6.63	2.71	3.84	6.63

	<b>k =14</b>	<b>k =14</b>	<b>k =14</b>	<b>k =15</b>	<b>k =15</b>	<b>k =15</b>	<b>k =16</b>	<b>k =16</b>	<b>k =16</b>
<b>ln(Q<sub>T</sub>/k)</b>	<b>10%</b>	<b>5%</b>	<b>1%</b>	<b>10%</b>	<b>5%</b>	<b>1%</b>	<b>10%</b>	<b>5%</b>	<b>1%</b>
-∞	21.06	23.68	29.14	22.31	25.00	30.58	23.54	26.30	32.00
-5.0	20.98	23.60	29.06	22.21	24.90	30.49	23.44	26.19	31.90
-4.9	20.97	23.59	29.04	22.20	24.89	30.47	23.43	26.18	31.89
-4.8	20.96	23.58	29.03	22.19	24.88	30.46	23.42	26.17	31.88
-4.7	20.95	23.57	29.02	22.18	24.87	30.45	23.41	26.16	31.87
-4.6	20.93	23.55	29.01	22.17	24.86	30.44	23.39	26.15	31.85
-4.5	20.92	23.54	29.00	22.15	24.84	30.42	23.38	26.13	31.83
-4.4	20.90	23.53	28.98	22.14	24.82	30.40	23.36	26.11	31.82
-4.3	20.89	23.51	28.97	22.12	24.81	30.39	23.34	26.09	31.80
-4.2	20.87	23.49	28.95	22.10	24.79	30.37	23.32	26.07	31.77
-4.1	20.85	23.47	28.92	22.08	24.76	30.35	23.29	26.05	31.75
-4.0	20.83	23.45	28.90	22.05	24.74	30.32	23.27	26.02	31.72
-3.9	20.80	23.42	28.88	22.02	24.71	30.29	23.24	25.99	31.70
-3.8	20.77	23.39	28.85	21.99	24.68	30.26	23.21	25.96	31.67
-3.7	20.74	23.36	28.82	21.96	24.65	30.23	23.17	25.93	31.63
-3.6	20.71	23.33	28.79	21.93	24.61	30.19	23.13	25.89	31.59
-3.5	20.67	23.29	28.75	21.89	24.57	30.15	23.09	25.84	31.55
-3.4	20.63	23.25	28.71	21.84	24.53	30.11	23.04	25.80	31.50
-3.3	20.59	23.21	28.67	21.79	24.48	30.06	22.99	25.74	31.45
-3.2	20.54	23.16	28.61	21.74	24.43	30.01	22.93	25.69	31.39
-3.1	20.48	23.10	28.56	21.68	24.37	29.95	22.87	25.62	31.33
-3.0	20.42	23.04	28.49	21.61	24.30	29.88	22.80	25.55	31.25
-2.9	20.35	22.97	28.43	21.54	24.23	29.81	22.72	25.47	31.18
-2.8	20.28	22.90	28.35	21.46	24.15	29.73	22.63	25.39	31.09
-2.7	20.19	22.81	28.27	21.37	24.06	29.64	22.54	25.29	30.99
-2.6	20.10	22.72	28.18	21.27	23.96	29.54	22.43	25.19	30.89
-2.5	20.00	22.62	28.08	21.16	23.85	29.43	22.32	25.07	30.78
-2.4	19.89	22.51	27.97	21.04	23.73	29.31	22.19	24.94	30.65
-2.3	19.77	22.39	27.85	20.91	23.60	29.18	22.05	24.80	30.50
-2.2	19.63	22.25	27.71	20.77	23.45	29.04	21.89	24.64	30.35
-2.1	19.48	22.10	27.56	20.60	23.29	28.87	21.72	24.47	30.17
-2.0	19.32	21.94	27.40	20.43	23.12	28.70	21.53	24.28	29.98
-1.9	19.14	21.76	27.21	20.23	22.92	28.50	21.32	24.07	29.77
-1.8	18.94	21.56	27.01	20.02	22.70	28.28	21.09	23.84	29.54
-1.7	18.72	21.34	26.79	19.78	22.46	28.04	20.83	23.58	29.28
-1.6	18.47	21.09	26.54	19.51	22.20	27.78	20.55	23.30	29.00
-1.5	18.20	20.82	26.27	19.23	21.91	27.49	20.24	22.99	28.69
-1.4	17.91	20.53	25.98	18.91	21.59	27.17	19.90	22.65	28.35
-1.3	17.58	20.20	25.65	18.56	21.24	26.82	19.52	22.27	27.97
-1.2	17.23	19.84	25.30	18.17	20.86	26.43	19.11	21.86	27.55
-1.1	16.84	19.45	24.90	17.75	20.43	26.01	18.65	21.40	27.10
-1.0	16.41	19.02	24.47	17.28	19.96	25.54	18.15	20.90	26.59
-0.9	15.94	18.55	23.99	16.78	19.45	25.02	17.61	20.35	26.04
-0.8	15.42	18.03	23.46	16.22	18.90	24.46	17.01	19.75	25.44
-0.7	14.86	17.46	22.90	15.61	18.28	23.84	16.36	19.09	24.77
-0.6	14.25	16.85	22.27	14.95	17.62	23.17	15.65	18.38	24.05
-0.5	13.59	16.18	21.60	14.24	16.90	22.44	14.88	17.60	23.26
-0.4	12.87	15.46	20.86	13.46	16.11	21.64	14.04	16.76	22.41
-0.3	12.11	14.68	20.07	12.64	15.27	20.78	13.16	15.86	21.48
-0.2	11.30	13.85	19.22	11.76	14.38	19.86	12.21	14.89	20.50
-0.1	10.46	12.98	18.31	10.85	13.44	18.88	11.23	13.88	19.44
0.0	9.59	12.08	17.36	9.91	12.46	17.86	10.22	12.83	18.34
0.1	8.72	11.16	16.38	8.97	11.47	16.80	9.21	11.76	17.20
0.2	7.88	10.25	15.38	8.06	10.49	15.72	8.24	10.71	16.05
0.3	7.09	9.38	14.40	7.22	9.55	14.67	7.34	9.72	14.92
0.4	6.38	8.58	13.45	6.47	8.70	13.66	6.55	8.81	13.85

0.5	5.77	7.86	12.59	5.83	7.95	12.74	5.88	8.03	12.88
0.6	5.27	7.25	11.81	5.31	7.31	11.92	5.34	7.37	12.03
0.7	4.86	6.74	11.13	4.89	6.79	11.21	4.91	6.83	11.29
0.8	4.53	6.32	10.55	4.55	6.36	10.61	4.57	6.39	10.68
0.9	4.27	5.98	10.05	4.28	6.01	10.11	4.30	6.03	10.16
1.0	4.05	5.69	9.63	4.06	5.72	9.68	4.08	5.74	9.72
1.1	3.87	5.46	9.27	3.88	5.47	9.31	3.89	5.49	9.34
1.2	3.72	5.26	8.96	3.73	5.27	8.99	3.74	5.28	9.02
1.3	3.60	5.09	8.70	3.61	5.10	8.72	3.61	5.11	8.74
1.4	3.49	4.94	8.46	3.50	4.95	8.48	3.50	4.96	8.50
1.5	3.40	4.81	8.26	3.40	4.82	8.27	3.41	4.83	8.29
1.6	3.32	4.70	8.08	3.32	4.71	8.10	3.33	4.72	8.11
1.7	3.25	4.61	7.92	3.25	4.61	7.94	3.26	4.62	7.95
1.8	3.19	4.52	7.79	3.19	4.53	7.80	3.20	4.53	7.81
1.9	3.14	4.45	7.66	3.14	4.45	7.67	3.14	4.46	7.68
2.0	3.09	4.38	7.56	3.09	4.39	7.56	3.10	4.39	7.57
2.1	3.05	4.33	7.46	3.05	4.33	7.47	3.05	4.33	7.47
2.2	3.01	4.28	7.38	3.02	4.28	7.38	3.02	4.28	7.39
2.3	2.98	4.23	7.30	2.98	4.23	7.30	2.98	4.24	7.31
2.4	2.95	4.19	7.23	2.95	4.19	7.24	2.96	4.20	7.24
2.5	2.93	4.16	7.17	2.93	4.16	7.18	2.93	4.16	7.18
2.6	2.91	4.12	7.12	2.91	4.13	7.12	2.91	4.13	7.12
2.7	2.88	4.10	7.07	2.89	4.10	7.07	2.89	4.10	7.07
2.8	2.87	4.07	7.03	2.87	4.07	7.03	2.87	4.07	7.03
2.9	2.85	4.05	6.99	2.85	4.05	6.99	2.85	4.05	6.99
3.0	2.84	4.03	6.95	2.84	4.03	6.96	2.84	4.03	6.96
3.1	2.82	4.01	6.92	2.82	4.01	6.92	2.82	4.01	6.93
3.2	2.81	3.99	6.89	2.81	3.99	6.89	2.81	3.99	6.90
3.3	2.80	3.98	6.87	2.80	3.98	6.87	2.80	3.98	6.87
3.4	2.79	3.96	6.85	2.79	3.96	6.85	2.79	3.97	6.85
3.5	2.78	3.95	6.83	2.78	3.95	6.83	2.78	3.95	6.83
3.6	2.78	3.94	6.81	2.78	3.94	6.81	2.78	3.94	6.81
3.7	2.77	3.93	6.79	2.77	3.93	6.79	2.77	3.93	6.79
3.8	2.76	3.92	6.77	2.76	3.92	6.77	2.76	3.92	6.78
3.9	2.76	3.91	6.76	2.76	3.92	6.76	2.76	3.92	6.76
4.0	2.75	3.91	6.75	2.75	3.91	6.75	2.75	3.91	6.75
4.1	2.75	3.90	6.74	2.75	3.90	6.74	2.75	3.90	6.74
4.2	2.74	3.90	6.73	2.74	3.90	6.73	2.74	3.90	6.73
4.3	2.74	3.89	6.72	2.74	3.89	6.72	2.74	3.89	6.72
4.4	2.74	3.89	6.71	2.74	3.89	6.71	2.74	3.89	6.71
4.5	2.73	3.88	6.70	2.73	3.88	6.70	2.73	3.88	6.71
4.6	2.73	3.88	6.70	2.73	3.88	6.70	2.73	3.88	6.70
4.7	2.73	3.87	6.69	2.73	3.87	6.69	2.73	3.87	6.69
4.8	2.73	3.87	6.69	2.73	3.87	6.69	2.73	3.87	6.69
4.9	2.72	3.87	6.68	2.72	3.87	6.68	2.72	3.87	6.68
5.0	2.72	3.87	6.68	2.72	3.87	6.68	2.72	3.87	6.68
5.1	2.72	3.86	6.67	2.72	3.86	6.67	2.72	3.86	6.67
5.2	2.72	3.86	6.67	2.72	3.86	6.67	2.72	3.86	6.67
5.3	2.72	3.86	6.67	2.72	3.86	6.67	2.72	3.86	6.67
5.4	2.72	3.86	6.66	2.72	3.86	6.66	2.72	3.86	6.66
5.5	2.72	3.86	6.66	2.72	3.86	6.66	2.72	3.86	6.66
5.6	2.71	3.85	6.66	2.72	3.85	6.66	2.72	3.85	6.66
5.7	2.71	3.85	6.66	2.71	3.85	6.65	2.71	3.85	6.66
5.8	2.71	3.85	6.65	2.71	3.85	6.65	2.71	3.85	6.65
5.9	2.71	3.85	6.65	2.71	3.85	6.65	2.71	3.85	6.65
6.0	2.71	3.85	6.65	2.71	3.85	6.65	2.71	3.85	6.65
+∞	2.71	3.84	6.63	2.71	3.84	6.63	2.71	3.84	6.63

	<b>k =17</b>	<b>k =17</b>	<b>k =17</b>	<b>k =18</b>	<b>k =18</b>	<b>k =18</b>	<b>k =19</b>	<b>k =19</b>	<b>k =19</b>
<b>ln(Q<sub>T</sub>/k)</b>	<b>10%</b>	<b>5%</b>	<b>1%</b>	<b>10%</b>	<b>5%</b>	<b>1%</b>	<b>10%</b>	<b>5%</b>	<b>1%</b>
-∞	24.77	27.59	33.41	25.99	28.87	34.81	27.20	30.14	36.19
-5.0	24.66	27.48	33.30	25.87	28.75	34.69	27.08	30.02	36.07
-4.9	24.65	27.47	33.29	25.86	28.74	34.68	27.07	30.01	36.06
-4.8	24.64	27.46	33.28	25.85	28.73	34.66	27.06	30.00	36.04
-4.7	24.62	27.44	33.26	25.83	28.71	34.65	27.04	29.98	36.03
-4.6	24.61	27.43	33.25	25.82	28.70	34.63	27.02	29.96	36.01
-4.5	24.59	27.41	33.23	25.80	28.68	34.61	27.00	29.94	35.99
-4.4	24.57	27.39	33.21	25.78	28.66	34.59	26.98	29.92	35.97
-4.3	24.55	27.37	33.19	25.76	28.64	34.57	26.96	29.90	35.95
-4.2	24.53	27.35	33.17	25.73	28.62	34.55	26.93	29.87	35.92
-4.1	24.50	27.32	33.14	25.71	28.59	34.52	26.91	29.85	35.89
-4.0	24.48	27.29	33.12	25.68	28.56	34.50	26.87	29.81	35.86
-3.9	24.45	27.26	33.08	25.65	28.53	34.46	26.84	29.78	35.83
-3.8	24.41	27.23	33.05	25.61	28.49	34.43	26.80	29.74	35.79
-3.7	24.37	27.19	33.01	25.57	28.45	34.39	26.76	29.70	35.75
-3.6	24.33	27.15	32.97	25.53	28.41	34.34	26.71	29.65	35.70
-3.5	24.29	27.10	32.93	25.48	28.36	34.29	26.66	29.60	35.65
-3.4	24.24	27.05	32.87	25.42	28.30	34.24	26.60	29.54	35.59
-3.3	24.18	27.00	32.82	25.36	28.24	34.18	26.54	29.48	35.53
-3.2	24.12	26.94	32.76	25.30	28.18	34.11	26.47	29.41	35.46
-3.1	24.05	26.87	32.69	25.22	28.10	34.04	26.39	29.33	35.38
-3.0	23.97	26.79	32.61	25.15	28.03	33.96	26.31	29.25	35.30
-2.9	23.89	26.71	32.53	25.06	27.94	33.87	26.22	29.16	35.20
-2.8	23.80	26.62	32.44	24.96	27.84	33.77	26.11	29.05	35.10
-2.7	23.70	26.52	32.34	24.85	27.73	33.66	26.00	28.94	34.99
-2.6	23.58	26.40	32.23	24.73	27.61	33.55	25.87	28.81	34.86
-2.5	23.46	26.28	32.10	24.60	27.48	33.42	25.73	28.67	34.72
-2.4	23.32	26.14	31.97	24.45	27.33	33.27	25.58	28.52	34.56
-2.3	23.17	25.99	31.81	24.29	27.17	33.11	25.41	28.35	34.39
-2.2	23.01	25.82	31.64	24.12	27.00	32.93	25.22	28.16	34.21
-2.1	22.82	25.64	31.46	23.92	26.80	32.74	25.01	27.95	34.00
-2.0	22.62	25.44	31.26	23.70	26.58	32.52	24.78	27.72	33.77
-1.9	22.39	25.21	31.03	23.47	26.34	32.28	24.53	27.47	33.52
-1.8	22.15	24.96	30.78	23.20	26.08	32.01	24.25	27.19	33.23
-1.7	21.87	24.69	30.51	22.91	25.79	31.72	23.94	26.88	32.93
-1.6	21.57	24.39	30.21	22.59	25.47	31.40	23.61	26.54	32.59
-1.5	21.24	24.06	29.88	22.24	25.12	31.05	23.23	26.17	32.21
-1.4	20.88	23.69	29.51	21.85	24.73	30.66	22.82	25.76	31.80
-1.3	20.48	23.29	29.11	21.42	24.30	30.23	22.37	25.30	31.35
-1.2	20.03	22.85	28.66	20.95	23.83	29.76	21.87	24.80	30.85
-1.1	19.55	22.36	28.17	20.44	23.31	29.24	21.32	24.25	30.29
-1.0	19.02	21.83	27.64	19.87	22.74	28.67	20.72	23.65	29.69
-0.9	18.43	21.24	27.05	19.25	22.12	28.04	20.06	22.99	29.02
-0.8	17.79	20.60	26.40	18.57	21.43	27.35	19.33	22.26	28.29
-0.7	17.09	19.89	25.69	17.82	20.68	26.60	18.54	21.47	27.49
-0.6	16.33	19.13	24.92	17.01	19.87	25.77	17.68	20.60	26.62
-0.5	15.51	18.29	24.07	16.13	18.98	24.87	16.75	19.66	25.66
-0.4	14.62	17.39	23.16	15.18	18.02	23.90	15.74	18.64	24.63
-0.3	13.66	16.43	22.17	14.16	16.99	22.84	14.66	17.54	23.51
-0.2	12.65	15.39	21.11	13.08	15.89	21.71	13.51	16.37	22.31
-0.1	11.60	14.31	19.99	11.96	14.73	20.51	12.31	15.14	21.03
0.0	10.51	13.18	18.80	10.80	13.53	19.25	11.08	13.86	19.69
0.1	9.44	12.04	17.59	9.65	12.31	17.96	9.86	12.57	18.31
0.2	8.40	10.92	16.36	8.55	11.13	16.65	8.70	11.32	16.93
0.3	7.45	9.87	15.16	7.55	10.01	15.38	7.65	10.15	15.60
0.4	6.62	8.92	14.03	6.68	9.01	14.20	6.74	9.10	14.36

0.5	5.93	8.10	13.01	5.97	8.16	13.13	6.01	8.22	13.25
0.6	5.37	7.41	12.12	5.40	7.46	12.21	5.42	7.50	12.29
0.7	4.93	6.86	11.37	4.95	6.89	11.44	4.97	6.92	11.50
0.8	4.59	6.41	10.73	4.60	6.44	10.79	4.61	6.46	10.84
0.9	4.31	6.05	10.20	4.32	6.07	10.24	4.33	6.09	10.28
1.0	4.09	5.75	9.75	4.10	5.77	9.79	4.10	5.78	9.81
1.1	3.90	5.50	9.37	3.91	5.52	9.40	3.92	5.53	9.42
1.2	3.75	5.29	9.04	3.75	5.30	9.06	3.76	5.31	9.09
1.3	3.62	5.12	8.76	3.62	5.13	8.78	3.63	5.13	8.79
1.4	3.51	4.96	8.52	3.51	4.97	8.53	3.52	4.98	8.54
1.5	3.41	4.83	8.31	3.42	4.84	8.32	3.42	4.85	8.33
1.6	3.33	4.72	8.12	3.33	4.73	8.13	3.34	4.73	8.14
1.7	3.26	4.62	7.96	3.26	4.63	7.96	3.27	4.63	7.97
1.8	3.20	4.54	7.81	3.20	4.54	7.82	3.20	4.54	7.83
1.9	3.14	4.46	7.69	3.15	4.46	7.69	3.15	4.47	7.70
2.0	3.10	4.39	7.58	3.10	4.40	7.58	3.10	4.40	7.58
2.1	3.06	4.34	7.48	3.06	4.34	7.48	3.06	4.34	7.49
2.2	3.02	4.28	7.39	3.02	4.29	7.40	3.02	4.29	7.40
2.3	2.99	4.24	7.31	2.99	4.24	7.32	2.99	4.24	7.32
2.4	2.96	4.20	7.24	2.96	4.20	7.25	2.96	4.20	7.25
2.5	2.93	4.16	7.18	2.93	4.16	7.19	2.93	4.16	7.19
2.6	2.91	4.13	7.13	2.91	4.13	7.13	2.91	4.13	7.13
2.7	2.89	4.10	7.08	2.89	4.10	7.08	2.89	4.10	7.08
2.8	2.87	4.07	7.03	2.87	4.07	7.03	2.87	4.08	7.04
2.9	2.85	4.05	6.99	2.85	4.05	7.00	2.85	4.05	7.00
3.0	2.84	4.03	6.96	2.84	4.03	6.96	2.84	4.03	6.96
3.1	2.83	4.01	6.93	2.83	4.01	6.93	2.83	4.01	6.93
3.2	2.81	3.99	6.90	2.81	3.99	6.90	2.81	4.00	6.90
3.3	2.80	3.98	6.87	2.80	3.98	6.87	2.80	3.98	6.87
3.4	2.79	3.97	6.85	2.79	3.97	6.85	2.79	3.97	6.85
3.5	2.78	3.95	6.83	2.78	3.95	6.83	2.79	3.95	6.83
3.6	2.78	3.94	6.81	2.78	3.94	6.81	2.78	3.94	6.81
3.7	2.77	3.93	6.79	2.77	3.93	6.79	2.77	3.93	6.79
3.8	2.76	3.92	6.78	2.76	3.92	6.78	2.76	3.92	6.78
3.9	2.76	3.92	6.76	2.76	3.92	6.76	2.76	3.92	6.77
4.0	2.75	3.91	6.75	2.75	3.91	6.75	2.75	3.91	6.75
4.1	2.75	3.90	6.74	2.75	3.90	6.74	2.75	3.90	6.74
4.2	2.74	3.90	6.73	2.74	3.90	6.73	2.74	3.90	6.73
4.3	2.74	3.89	6.72	2.74	3.89	6.72	2.74	3.89	6.72
4.4	2.74	3.89	6.71	2.74	3.89	6.71	2.74	3.89	6.71
4.5	2.73	3.88	6.70	2.73	3.88	6.70	2.73	3.88	6.70
4.6	2.73	3.88	6.70	2.73	3.88	6.70	2.73	3.88	6.70
4.7	2.73	3.87	6.69	2.73	3.87	6.69	2.73	3.87	6.69
4.8	2.73	3.87	6.69	2.73	3.87	6.69	2.73	3.87	6.69
4.9	2.72	3.87	6.68	2.72	3.87	6.68	2.72	3.87	6.68
5.0	2.72	3.87	6.68	2.72	3.87	6.68	2.72	3.87	6.68
5.1	2.72	3.86	6.67	2.72	3.86	6.67	2.72	3.86	6.67
5.2	2.72	3.86	6.67	2.72	3.86	6.67	2.72	3.86	6.67
5.3	2.72	3.86	6.67	2.72	3.86	6.67	2.72	3.86	6.67
5.4	2.72	3.86	6.66	2.72	3.86	6.66	2.72	3.86	6.66
5.5	2.72	3.86	6.66	2.72	3.86	6.66	2.72	3.86	6.66
5.6	2.71	3.85	6.66	2.72	3.85	6.66	2.72	3.86	6.66
5.7	2.71	3.85	6.65	2.71	3.85	6.66	2.71	3.85	6.66
5.8	2.71	3.85	6.65	2.71	3.85	6.65	2.71	3.85	6.65
5.9	2.71	3.85	6.65	2.71	3.85	6.65	2.71	3.85	6.65
6.0	2.71	3.85	6.65	2.71	3.85	6.65	2.71	3.85	6.65
+∞	2.71	3.84	6.63	2.71	3.84	6.63	2.71	3.84	6.63

	<b>k =20</b>	<b>k =20</b>	<b>k =20</b>	<b>k =21</b>	<b>k =21</b>	<b>k =21</b>	<b>k =22</b>	<b>k =22</b>	<b>k =22</b>
<b>ln(Q<sub>T</sub>/k)</b>	<b>10%</b>	<b>5%</b>	<b>1%</b>	<b>10%</b>	<b>5%</b>	<b>1%</b>	<b>10%</b>	<b>5%</b>	<b>1%</b>
-∞	28.41	31.41	37.57	29.62	32.67	38.93	30.81	33.92	40.29
-5.0	28.28	31.28	37.44	29.48	32.54	38.80	30.67	33.78	40.15
-4.9	28.27	31.27	37.43	29.47	32.52	38.78	30.66	33.77	40.13
-4.8	28.26	31.25	37.41	29.45	32.51	38.77	30.64	33.75	40.12
-4.7	28.24	31.24	37.39	29.43	32.49	38.75	30.62	33.73	40.10
-4.6	28.22	31.22	37.38	29.41	32.47	38.73	30.60	33.71	40.08
-4.5	28.20	31.20	37.35	29.39	32.45	38.71	30.58	33.69	40.06
-4.4	28.18	31.18	37.33	29.37	32.43	38.69	30.56	33.67	40.03
-4.3	28.15	31.15	37.31	29.34	32.40	38.66	30.53	33.64	40.00
-4.2	28.13	31.13	37.28	29.32	32.37	38.63	30.50	33.61	39.98
-4.1	28.10	31.10	37.25	29.28	32.34	38.60	30.47	33.58	39.94
-4.0	28.06	31.06	37.22	29.25	32.30	38.56	30.43	33.54	39.91
-3.9	28.03	31.03	37.18	29.21	32.27	38.53	30.39	33.50	39.86
-3.8	27.99	30.99	37.14	29.17	32.22	38.49	30.34	33.46	39.82
-3.7	27.94	30.94	37.10	29.12	32.18	38.44	30.29	33.41	39.77
-3.6	27.89	30.89	37.05	29.07	32.13	38.39	30.24	33.35	39.72
-3.5	27.84	30.84	36.99	29.01	32.07	38.33	30.18	33.29	39.66
-3.4	27.78	30.78	36.93	28.95	32.00	38.26	30.11	33.22	39.59
-3.3	27.71	30.71	36.87	28.88	31.93	38.19	30.04	33.15	39.52
-3.2	27.64	30.64	36.79	28.80	31.86	38.12	29.96	33.07	39.43
-3.1	27.56	30.56	36.71	28.72	31.77	38.03	29.87	32.98	39.34
-3.0	27.47	30.47	36.62	28.62	31.68	37.94	29.77	32.88	39.24
-2.9	27.37	30.37	36.52	28.52	31.57	37.83	29.66	32.77	39.14
-2.8	27.26	30.26	36.41	28.40	31.46	37.72	29.54	32.65	39.01
-2.7	27.14	30.14	36.29	28.27	31.33	37.59	29.41	32.52	38.88
-2.6	27.01	30.00	36.16	28.13	31.19	37.45	29.26	32.37	38.73
-2.5	26.86	29.86	36.01	27.98	31.03	37.29	29.09	32.21	38.57
-2.4	26.69	29.69	35.85	27.81	30.86	37.13	28.92	32.03	38.39
-2.3	26.52	29.51	35.67	27.62	30.67	36.94	28.72	31.83	38.19
-2.2	26.32	29.32	35.47	27.41	30.46	36.73	28.50	31.61	37.97
-2.1	26.10	29.10	35.25	27.18	30.23	36.49	28.25	31.36	37.73
-2.0	25.86	28.85	35.01	26.92	29.98	36.24	27.99	31.10	37.46
-1.9	25.59	28.59	34.74	26.64	29.70	35.96	27.69	30.80	37.17
-1.8	25.29	28.29	34.45	26.33	29.39	35.65	27.37	30.48	36.84
-1.7	24.97	27.97	34.12	25.99	29.04	35.30	27.01	30.12	36.48
-1.6	24.61	27.61	33.76	25.61	28.67	34.93	26.61	29.72	36.08
-1.5	24.22	27.21	33.37	25.20	28.25	34.51	26.17	29.28	35.64
-1.4	23.78	26.78	32.93	24.74	27.79	34.05	25.69	28.80	35.16
-1.3	23.30	26.30	32.45	24.24	27.29	33.54	25.16	28.27	34.63
-1.2	22.78	25.77	31.92	23.68	26.73	32.98	24.58	27.68	34.04
-1.1	22.20	25.19	31.34	23.07	26.12	32.37	23.94	27.04	33.40
-1.0	21.56	24.55	30.70	22.40	25.45	31.69	23.23	26.33	32.69
-0.9	20.86	23.85	29.99	21.66	24.71	30.95	22.45	25.56	31.90
-0.8	20.10	23.08	29.22	20.85	23.90	30.14	21.61	24.70	31.05
-0.7	19.26	22.24	28.37	19.97	23.01	29.25	20.68	23.77	30.11
-0.6	18.35	21.32	27.45	19.01	22.04	28.27	19.66	22.75	29.09
-0.5	17.36	20.33	26.44	17.96	20.99	27.21	18.56	21.64	27.96
-0.4	16.29	19.25	25.34	16.83	19.85	26.05	17.37	20.44	26.75
-0.3	15.14	18.08	24.16	15.62	18.62	24.80	16.10	19.15	25.43
-0.2	13.93	16.84	22.88	14.34	17.31	23.46	14.74	17.77	24.01
-0.1	12.65	15.54	21.53	12.99	15.93	22.03	13.32	16.31	22.51
0.0	11.35	14.19	20.12	11.62	14.50	20.53	11.88	14.81	20.94
0.1	10.07	12.83	18.66	10.26	13.07	19.00	10.45	13.31	19.33
0.2	8.84	11.50	17.20	8.98	11.68	17.47	9.11	11.85	17.72
0.3	7.74	10.27	15.80	7.83	10.39	15.99	7.91	10.51	16.18
0.4	6.80	9.19	14.50	6.85	9.27	14.64	6.90	9.34	14.77



0.5	6.04	8.28	13.35	6.07	8.33	13.45	6.10	8.37	13.54
0.6	5.45	7.54	12.37	5.47	7.57	12.44	5.49	7.60	12.51
0.7	4.99	6.95	11.56	5.00	6.98	11.61	5.02	7.00	11.66
0.8	4.63	6.48	10.88	4.64	6.50	10.92	4.65	6.52	10.96
0.9	4.34	6.10	10.32	4.35	6.12	10.35	4.36	6.13	10.38
1.0	4.11	5.80	9.84	4.12	5.81	9.87	4.13	5.82	9.89
1.1	3.92	5.54	9.44	3.93	5.55	9.46	3.93	5.56	9.48
1.2	3.76	5.32	9.10	3.77	5.33	9.12	3.77	5.34	9.13
1.3	3.63	5.14	8.81	3.64	5.15	8.82	3.64	5.15	8.83
1.4	3.52	4.98	8.55	3.52	4.99	8.57	3.53	4.99	8.58
1.5	3.42	4.85	8.34	3.43	4.85	8.35	3.43	4.86	8.35
1.6	3.34	4.73	8.15	3.34	4.74	8.15	3.34	4.74	8.16
1.7	3.27	4.63	7.98	3.27	4.64	7.98	3.27	4.64	7.99
1.8	3.20	4.55	7.83	3.21	4.55	7.84	3.21	4.55	7.84
1.9	3.15	4.47	7.70	3.15	4.47	7.71	3.15	4.47	7.71
2.0	3.10	4.40	7.59	3.10	4.40	7.59	3.10	4.41	7.60
2.1	3.06	4.34	7.49	3.06	4.34	7.49	3.06	4.35	7.50
2.2	3.02	4.29	7.40	3.02	4.29	7.40	3.02	4.29	7.41
2.3	2.99	4.24	7.32	2.99	4.24	7.32	2.99	4.24	7.33
2.4	2.96	4.20	7.25	2.96	4.20	7.25	2.96	4.20	7.26
2.5	2.93	4.16	7.19	2.93	4.16	7.19	2.93	4.17	7.19
2.6	2.91	4.13	7.13	2.91	4.13	7.13	2.91	4.13	7.14
2.7	2.89	4.10	7.08	2.89	4.10	7.08	2.89	4.10	7.09
2.8	2.87	4.08	7.04	2.87	4.08	7.04	2.87	4.08	7.04
2.9	2.85	4.05	7.00	2.85	4.05	7.00	2.86	4.05	7.00
3.0	2.84	4.03	6.96	2.84	4.03	6.96	2.84	4.03	6.96
3.1	2.83	4.01	6.93	2.83	4.01	6.93	2.83	4.01	6.93
3.2	2.81	4.00	6.90	2.81	4.00	6.90	2.81	4.00	6.90
3.3	2.80	3.98	6.87	2.80	3.98	6.88	2.80	3.98	6.88
3.4	2.79	3.97	6.85	2.79	3.97	6.85	2.79	3.97	6.85
3.5	2.79	3.95	6.83	2.79	3.96	6.83	2.79	3.96	6.83
3.6	2.78	3.94	6.81	2.78	3.94	6.81	2.78	3.94	6.81
3.7	2.77	3.93	6.79	2.77	3.93	6.79	2.77	3.93	6.80
3.8	2.76	3.92	6.78	2.76	3.93	6.78	2.76	3.93	6.78
3.9	2.76	3.92	6.76	2.76	3.92	6.76	2.76	3.92	6.76
4.0	2.75	3.91	6.75	2.75	3.91	6.75	2.75	3.91	6.75
4.1	2.75	3.90	6.74	2.75	3.90	6.74	2.75	3.90	6.74
4.2	2.74	3.90	6.73	2.74	3.90	6.73	2.74	3.90	6.73
4.3	2.74	3.89	6.72	2.74	3.89	6.72	2.74	3.89	6.72
4.4	2.74	3.89	6.71	2.74	3.89	6.71	2.74	3.89	6.71
4.5	2.73	3.88	6.71	2.73	3.88	6.71	2.73	3.88	6.70
4.6	2.73	3.88	6.70	2.73	3.88	6.70	2.73	3.88	6.70
4.7	2.73	3.87	6.69	2.73	3.87	6.69	2.73	3.88	6.69
4.8	2.73	3.87	6.69	2.73	3.87	6.69	2.73	3.87	6.69
4.9	2.72	3.87	6.68	2.72	3.87	6.68	2.72	3.87	6.68
5.0	2.72	3.87	6.68	2.72	3.87	6.68	2.72	3.87	6.68
5.1	2.72	3.86	6.67	2.72	3.86	6.67	2.72	3.86	6.67
5.2	2.72	3.86	6.67	2.72	3.86	6.67	2.72	3.86	6.67
5.3	2.72	3.86	6.67	2.72	3.86	6.67	2.72	3.86	6.67
5.4	2.72	3.86	6.66	2.72	3.86	6.66	2.72	3.86	6.66
5.5	2.72	3.86	6.66	2.72	3.86	6.66	2.72	3.86	6.66
5.6	2.72	3.86	6.66	2.72	3.86	6.66	2.72	3.86	6.66
5.7	2.71	3.85	6.66	2.71	3.85	6.66	2.71	3.85	6.66
5.8	2.71	3.85	6.65	2.71	3.85	6.65	2.71	3.85	6.65
5.9	2.71	3.85	6.65	2.71	3.85	6.65	2.71	3.85	6.65
6.0	2.71	3.85	6.65	2.71	3.85	6.65	2.71	3.85	6.65
+∞	2.71	3.84	6.63	2.71	3.84	6.63	2.71	3.84	6.63

	<b>k =23</b>	<b>k =23</b>	<b>k =23</b>	<b>k =24</b>	<b>k =24</b>	<b>k =24</b>	<b>k =25</b>	<b>k =25</b>	<b>k =25</b>
<b>ln(Q<sub>T</sub>/k)</b>	<b>10%</b>	<b>5%</b>	<b>1%</b>	<b>10%</b>	<b>5%</b>	<b>1%</b>	<b>10%</b>	<b>5%</b>	<b>1%</b>
-∞	32.01	35.17	41.64	33.20	36.42	42.98	34.38	37.65	44.31
-5.0	31.86	35.02	41.49	33.04	36.26	42.82	34.22	37.49	44.15
-4.9	31.84	35.01	41.47	33.02	36.24	42.81	34.20	37.47	44.14
-4.8	31.83	34.99	41.46	33.01	36.23	42.79	34.18	37.45	44.11
-4.7	31.81	34.97	41.44	32.99	36.21	42.77	34.16	37.43	44.10
-4.6	31.79	34.95	41.42	32.97	36.18	42.75	34.14	37.41	44.07
-4.5	31.76	34.93	41.39	32.94	36.16	42.73	34.12	37.39	44.05
-4.4	31.74	34.90	41.37	32.91	36.13	42.70	34.09	37.36	44.02
-4.3	31.71	34.87	41.34	32.88	36.10	42.67	34.06	37.33	43.99
-4.2	31.68	34.84	41.31	32.85	36.07	42.64	34.02	37.29	43.95
-4.1	31.64	34.81	41.27	32.82	36.03	42.60	33.98	37.26	43.92
-4.0	31.60	34.77	41.24	32.78	35.99	42.56	33.94	37.21	43.88
-3.9	31.56	34.73	41.19	32.73	35.95	42.52	33.90	37.17	43.83
-3.8	31.51	34.68	41.15	32.68	35.90	42.47	33.85	37.12	43.78
-3.7	31.46	34.63	41.09	32.63	35.85	42.41	33.79	37.06	43.72
-3.6	31.41	34.57	41.04	32.57	35.79	42.35	33.73	37.00	43.66
-3.5	31.34	34.51	40.97	32.50	35.72	42.29	33.66	36.93	43.59
-3.4	31.27	34.44	40.91	32.43	35.65	42.21	33.58	36.85	43.51
-3.3	31.20	34.36	40.83	32.35	35.57	42.13	33.50	36.77	43.43
-3.2	31.11	34.28	40.74	32.26	35.48	42.04	33.40	36.68	43.34
-3.1	31.02	34.18	40.65	32.16	35.38	41.94	33.30	36.57	43.24
-3.0	30.91	34.08	40.54	32.05	35.27	41.84	33.19	36.46	43.12
-2.9	30.80	33.96	40.43	31.93	35.15	41.72	33.06	36.33	43.00
-2.8	30.67	33.84	40.30	31.80	35.02	41.58	32.92	36.20	42.86
-2.7	30.53	33.70	40.16	31.65	34.87	41.44	32.77	36.04	42.71
-2.6	30.38	33.54	40.01	31.49	34.71	41.27	32.60	35.87	42.54
-2.5	30.21	33.37	39.84	31.31	34.53	41.10	32.42	35.69	42.35
-2.4	30.02	33.18	39.65	31.12	34.34	40.90	32.21	35.48	42.15
-2.3	29.81	32.98	39.44	30.90	34.12	40.68	31.98	35.25	41.92
-2.2	29.58	32.74	39.21	30.66	33.88	40.44	31.73	35.00	41.66
-2.1	29.33	32.49	38.96	30.39	33.61	40.17	31.46	34.73	41.39
-2.0	29.05	32.21	38.68	30.10	33.32	39.88	31.15	34.42	41.08
-1.9	28.74	31.90	38.37	29.78	32.99	39.56	30.81	34.08	40.74
-1.8	28.39	31.56	38.03	29.42	32.64	39.20	30.44	33.71	40.37
-1.7	28.02	31.18	37.64	29.03	32.24	38.81	30.03	33.30	39.96
-1.6	27.60	30.77	37.23	28.59	31.81	38.37	29.57	32.84	39.50
-1.5	27.14	30.31	36.77	28.11	31.33	37.89	29.07	32.34	39.00
-1.4	26.64	29.80	36.26	27.58	30.80	37.36	28.52	31.79	38.45
-1.3	26.08	29.25	35.70	27.00	30.22	36.77	27.91	31.18	37.84
-1.2	25.47	28.63	35.09	26.36	29.57	36.13	27.24	30.51	37.17
-1.1	24.80	27.96	34.41	25.65	28.87	35.42	26.51	29.77	36.43
-1.0	24.06	27.22	33.67	24.88	28.09	34.64	25.70	28.96	35.61
-0.9	23.24	26.40	32.85	24.03	27.24	33.79	24.81	28.07	34.72
-0.8	22.35	25.51	31.95	23.10	26.30	32.85	23.83	27.09	33.74
-0.7	21.38	24.53	30.97	22.07	25.28	31.82	22.77	26.02	32.66
-0.6	20.31	23.46	29.89	20.96	24.16	30.69	21.60	24.85	31.48
-0.5	19.16	22.29	28.71	19.75	22.93	29.46	20.33	23.57	30.19
-0.4	17.91	21.03	27.43	18.44	21.61	28.12	18.96	22.19	28.79
-0.3	16.57	19.67	26.05	17.03	20.19	26.66	17.49	20.70	27.27
-0.2	15.14	18.22	24.57	15.53	18.67	25.11	15.92	19.11	25.64
-0.1	13.65	16.69	22.99	13.97	17.06	23.46	14.29	17.43	23.91
0.0	12.13	15.12	21.33	12.38	15.41	21.72	12.62	15.70	22.10
0.1	10.64	13.53	19.64	10.81	13.76	19.95	10.99	13.97	20.25
0.2	9.23	12.01	17.96	9.35	12.16	18.19	9.46	12.31	18.42
0.3	7.98	10.61	16.36	8.05	10.72	16.52	8.12	10.81	16.68
0.4	6.95	9.41	14.90	6.99	9.47	15.02	7.03	9.53	15.13

0.5	6.13	8.42	13.63	6.15	8.46	13.71	6.18	8.50	13.79
0.6	5.50	7.64	12.57	5.52	7.66	12.63	5.54	7.69	12.69
0.7	5.03	7.02	11.71	5.04	7.04	11.75	5.05	7.06	11.79
0.8	4.66	6.54	11.00	4.67	6.55	11.03	4.68	6.56	11.06
0.9	4.37	6.15	10.41	4.37	6.16	10.43	4.38	6.17	10.46
1.0	4.13	5.83	9.91	4.14	5.84	9.93	4.14	5.85	9.95
1.1	3.94	5.56	9.50	3.94	5.57	9.52	3.95	5.58	9.53
1.2	3.78	5.34	9.15	3.78	5.35	9.16	3.79	5.35	9.17
1.3	3.64	5.16	8.85	3.65	5.16	8.86	3.65	5.17	8.86
1.4	3.53	5.00	8.59	3.53	5.00	8.59	3.53	5.01	8.60
1.5	3.43	4.86	8.36	3.43	4.86	8.37	3.43	4.87	8.37
1.6	3.35	4.74	8.17	3.35	4.75	8.17	3.35	4.75	8.18
1.7	3.27	4.64	8.00	3.27	4.64	8.00	3.28	4.65	8.00
1.8	3.21	4.55	7.85	3.21	4.55	7.85	3.21	4.56	7.85
1.9	3.15	4.48	7.72	3.16	4.48	7.72	3.16	4.48	7.72
2.0	3.11	4.41	7.60	3.11	4.41	7.60	3.11	4.41	7.61
2.1	3.06	4.35	7.50	3.06	4.35	7.50	3.06	4.35	7.50
2.2	3.02	4.29	7.41	3.03	4.29	7.41	3.03	4.29	7.41
2.3	2.99	4.25	7.33	2.99	4.25	7.33	2.99	4.25	7.33
2.4	2.96	4.20	7.26	2.96	4.21	7.26	2.96	4.21	7.26
2.5	2.94	4.17	7.19	2.94	4.17	7.19	2.94	4.17	7.20
2.6	2.91	4.13	7.14	2.91	4.13	7.14	2.91	4.14	7.14
2.7	2.89	4.10	7.09	2.89	4.10	7.09	2.89	4.11	7.09
2.8	2.87	4.08	7.04	2.87	4.08	7.04	2.87	4.08	7.04
2.9	2.86	4.05	7.00	2.86	4.05	7.00	2.86	4.06	7.00
3.0	2.84	4.03	6.96	2.84	4.03	6.97	2.84	4.03	6.97
3.1	2.83	4.01	6.93	2.83	4.01	6.93	2.83	4.01	6.93
3.2	2.82	4.00	6.90	2.82	4.00	6.90	2.82	4.00	6.90
3.3	2.80	3.98	6.88	2.80	3.98	6.88	2.80	3.98	6.88
3.4	2.79	3.97	6.85	2.79	3.97	6.85	2.79	3.97	6.85
3.5	2.79	3.96	6.83	2.79	3.96	6.83	2.79	3.96	6.83
3.6	2.78	3.94	6.81	2.78	3.94	6.81	2.78	3.94	6.81
3.7	2.77	3.93	6.80	2.77	3.93	6.80	2.77	3.93	6.80
3.8	2.76	3.93	6.78	2.76	3.93	6.78	2.76	3.93	6.78
3.9	2.76	3.92	6.77	2.76	3.92	6.77	2.76	3.92	6.77
4.0	2.75	3.91	6.75	2.75	3.91	6.75	2.75	3.91	6.75
4.1	2.75	3.90	6.74	2.75	3.90	6.74	2.75	3.90	6.74
4.2	2.74	3.90	6.73	2.74	3.90	6.73	2.75	3.90	6.73
4.3	2.74	3.89	6.72	2.74	3.89	6.72	2.74	3.89	6.72
4.4	2.74	3.89	6.71	2.74	3.89	6.71	2.74	3.89	6.71
4.5	2.73	3.88	6.71	2.73	3.88	6.71	2.73	3.88	6.71
4.6	2.73	3.88	6.70	2.73	3.88	6.70	2.73	3.88	6.70
4.7	2.73	3.87	6.69	2.73	3.87	6.69	2.73	3.88	6.69
4.8	2.73	3.87	6.69	2.73	3.87	6.69	2.73	3.87	6.69
4.9	2.73	3.87	6.68	2.73	3.87	6.68	2.73	3.87	6.68
5.0	2.72	3.87	6.68	2.72	3.87	6.68	2.72	3.87	6.68
5.1	2.72	3.86	6.67	2.72	3.86	6.67	2.72	3.86	6.67
5.2	2.72	3.86	6.67	2.72	3.86	6.67	2.72	3.86	6.67
5.3	2.72	3.86	6.67	2.72	3.86	6.67	2.72	3.86	6.67
5.4	2.72	3.86	6.66	2.72	3.86	6.66	2.72	3.86	6.66
5.5	2.72	3.86	6.66	2.72	3.86	6.66	2.72	3.86	6.66
5.6	2.72	3.85	6.66	2.72	3.86	6.66	2.72	3.86	6.66
5.7	2.71	3.85	6.66	2.71	3.85	6.66	2.71	3.85	6.66
5.8	2.71	3.85	6.65	2.71	3.85	6.65	2.71	3.85	6.65
5.9	2.71	3.85	6.65	2.71	3.85	6.65	2.71	3.85	6.65
6.0	2.71	3.85	6.65	2.71	3.85	6.65	2.71	3.85	6.65
+∞	2.71	3.84	6.63	2.71	3.84	6.63	2.71	3.84	6.63