

Tab. A.2 Binomialverteilung $p = 0.1$

$n \setminus x$	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				
1	0.9	1																																	
2	0.81	0.99	1																																
3	0.729	0.972	0.999	1																															
4	0.656	0.948	0.996	1	1																														
5	0.59	0.919	0.991	1	1	1																													
6	0.531	0.886	0.984	0.999	1	1	1																												
7	0.478	0.85	0.974	0.997	1	1	1	1																											
8	0.43	0.813	0.962	0.995	1	1	1	1	1																										
9	0.387	0.775	0.947	0.992	0.999	1	1	1	1	1																									
10	0.349	0.736	0.93	0.987	0.998	1	1	1	1	1	1																								
11	0.314	0.697	0.91	0.981	0.997	1	1	1	1	1	1	1																							
12	0.282	0.659	0.889	0.974	0.996	0.999	1	1	1	1	1	1	1																						
13	0.254	0.621	0.866	0.966	0.994	0.999	1	1	1	1	1	1	1	1																					
14	0.229	0.585	0.842	0.956	0.991	0.999	1	1	1	1	1	1	1	1	1																				
15	0.206	0.549	0.816	0.944	0.987	0.998	1	1	1	1	1	1	1	1	1	1																			
16	0.185	0.515	0.789	0.932	0.983	0.997	0.999	1	1	1	1	1	1	1	1	1	1																		
17	0.167	0.482	0.762	0.917	0.978	0.995	0.999	1	1	1	1	1	1	1	1	1	1	1																	
18	0.15	0.45	0.734	0.902	0.972	0.994	0.999	1	1	1	1	1	1	1	1	1	1	1	1																
19	0.135	0.42	0.705	0.885	0.965	0.991	0.998	1	1	1	1	1	1	1	1	1	1	1	1	1															
20	0.122	0.392	0.677	0.867	0.957	0.989	0.998	1	1	1	1	1	1	1	1	1	1	1	1	1	1														
21	0.109	0.365	0.648	0.848	0.948	0.986	0.997	0.999	1	1	1	1	1	1	1	1	1	1	1	1	1	1													
22	0.098	0.339	0.62	0.828	0.938	0.982	0.996	0.999	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1												
23	0.089	0.315	0.592	0.807	0.927	0.977	0.994	0.999	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1											
24	0.08	0.292	0.564	0.786	0.915	0.972	0.993	0.998	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1										
25	0.072	0.271	0.537	0.764	0.902	0.967	0.991	0.998	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
26	0.065	0.251	0.511	0.741	0.888	0.96	0.988	0.997	0.999	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1								
27	0.058	0.233	0.485	0.718	0.873	0.953	0.985	0.996	0.999	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
28	0.052	0.215	0.459	0.695	0.858	0.945	0.982	0.995	0.999	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
29	0.047	0.199	0.435	0.671	0.842	0.936	0.978	0.994	0.998	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
30	0.042	0.184	0.411	0.647	0.825	0.927	0.974	0.992	0.998	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
		$F_{n,p}(x) = 1 - F_{n,1-p}(n-x-1)$																																	

Tab. A.3 Binomialverteilung $p = 0.15$

$n \setminus x$	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30					
1	0.85	1																																		
2	0.723	0.978	1																																	
3	0.614	0.939	0.997	1																																
4	0.522	0.89	0.988	0.999	1																															
5	0.444	0.835	0.973	0.998	1	1																														
6	0.377	0.776	0.953	0.994	1	1	1																													
7	0.321	0.717	0.926	0.988	0.999	1	1	1	1																											
8	0.272	0.667	0.895	0.979	0.997	1	1	1	1	1																										
9	0.232	0.599	0.859	0.966	0.994	0.999	1	1	1	1	1																									
10	0.197	0.544	0.82	0.95	0.99	0.999	1	1	1	1	1	1																								
11	0.167	0.492	0.779	0.931	0.984	0.997	1	1	1	1	1	1	1																							
12	0.142	0.443	0.736	0.908	0.976	0.995	0.999	1	1	1	1	1	1	1																						
13	0.121	0.398	0.692	0.882	0.966	0.992	0.999	1	1	1	1	1	1	1	1																					
14	0.103	0.357	0.648	0.853	0.953	0.988	0.998	1	1	1	1	1	1	1	1	1																				
15	0.087	0.319	0.604	0.823	0.938	0.983	0.996	0.999	1	1	1	1	1	1	1	1	1																			
16	0.074	0.284	0.561	0.79	0.921	0.976	0.994	0.999	1	1	1	1	1	1	1	1	1	1																		
17	0.063	0.252	0.52	0.756	0.901	0.968	0.992	0.998	1	1	1	1	1	1	1	1	1	1	1																	
18	0.054	0.224	0.48	0.72	0.879	0.958	0.988	0.997	0.999	1	1	1	1	1	1	1	1	1	1	1																
19	0.046	0.198	0.441	0.684	0.856	0.946	0.984	0.996	0.999	1	1	1	1	1	1	1	1	1	1	1	1															
20	0.039	0.176	0.405	0.648	0.83	0.933	0.978	0.994	0.999	1	1	1	1	1	1	1	1	1	1	1	1	1														
21	0.033	0.155	0.37	0.611	0.803	0.917	0.971	0.992	0.998	1	1	1	1	1	1	1	1	1	1	1	1	1	1													
22	0.028	0.137	0.338	0.575	0.774	0.9	0.963	0.989	0.997	0.999	1	1	1	1	1	1	1	1	1	1	1	1	1	1												
23	0.024	0.12	0.308	0.54	0.744	0.881	0.954	0.985	0.996	0.999	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1											
24	0.02	0.106	0.28	0.505	0.713	0.861	0.943	0.98	0.994	0.999	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1										
25	0.017	0.093	0.254	0.471	0.682	0.838	0.93	0.975	0.992	0.998	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
26	0.015	0.082	0.23	0.439	0.65	0.815	0.917	0.968	0.989	0.997	0.999	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1								
27	0.012	0.072	0.207	0.407	0.619	0.79	0.901	0.96	0.986	0.996	0.999	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
28	0.011	0.063	0.187	0.371	0.587	0.765	0.885	0.951	0.982	0.994	0.998	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
29	0.009	0.055	0.168	0.349	0.555	0.738	0.867	0.941	0.978	0.993	0.998	0.999	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
30	0.008	0.048	0.151	0.322	0.524	0.711	0.847	0.93	0.972	0.99	0.997	0.999	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		$F_{n,p}(x) = 1 - F_{n,1-p}(n-x, 1)$																																		

Tab. A.5 Binomialverteilung $p = 0.25$

$n \setminus x$	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
1	0.75	1																															
2	0.563	0.938	1																														
3	0.422	0.844	0.984	1																													
4	0.316	0.738	0.949	0.996	1																												
5	0.237	0.633	0.896	0.984	0.999	1																											
6	0.178	0.534	0.831	0.962	0.995	1	1																										
7	0.133	0.445	0.756	0.929	0.987	0.999	1	1																									
8	0.1	0.367	0.679	0.886	0.973	0.996	1	1	1																								
9	0.075	0.3	0.601	0.834	0.951	0.99	0.999	1	1	1																							
10	0.056	0.244	0.526	0.776	0.922	0.98	0.996	1	1	1	1																						
11	0.042	0.197	0.455	0.713	0.885	0.966	0.992	0.999	1	1	1	1																					
12	0.032	0.158	0.391	0.649	0.842	0.946	0.986	0.997	1	1	1	1	1																				
13	0.024	0.127	0.333	0.584	0.794	0.92	0.976	0.994	0.999	1	1	1	1	1																			
14	0.018	0.101	0.281	0.521	0.742	0.888	0.962	0.99	0.998	1	1	1	1	1	1																		
15	0.013	0.08	0.236	0.461	0.686	0.852	0.943	0.983	0.996	0.999	1	1	1	1	1	1																	
16	0.01	0.063	0.197	0.405	0.63	0.81	0.92	0.973	0.993	0.998	1	1	1	1	1	1	1																
17	0.008	0.05	0.164	0.353	0.574	0.765	0.893	0.96	0.988	0.997	0.999	1	1	1	1	1	1	1															
18	0.006	0.039	0.135	0.306	0.519	0.717	0.861	0.943	0.981	0.995	0.999	1	1	1	1	1	1	1	1														
19	0.004	0.031	0.111	0.263	0.465	0.668	0.825	0.923	0.971	0.991	0.998	1	1	1	1	1	1	1	1	1													
20	0.003	0.024	0.091	0.225	0.415	0.617	0.786	0.898	0.959	0.986	0.996	0.999	1	1	1	1	1	1	1	1	1												
21	0.002	0.019	0.075	0.192	0.367	0.567	0.744	0.87	0.944	0.979	0.994	0.998	1	1	1	1	1	1	1	1	1	1											
22	0.002	0.015	0.061	0.162	0.323	0.517	0.699	0.838	0.925	0.97	0.99	0.997	0.999	1	1	1	1	1	1	1	1	1	1										
23	0.001	0.012	0.049	0.137	0.283	0.468	0.654	0.804	0.904	0.959	0.985	0.995	0.999	1	1	1	1	1	1	1	1	1	1	1									
24	0.001	0.009	0.04	0.115	0.247	0.422	0.607	0.766	0.879	0.945	0.979	0.993	0.998	0.999	1	1	1	1	1	1	1	1	1	1	1								
25	8E-04	0.007	0.032	0.096	0.214	0.378	0.561	0.727	0.851	0.929	0.97	0.989	0.997	0.999	1	1	1	1	1	1	1	1	1	1	1	1							
26	6E-04	0.005	0.026	0.08	0.184	0.337	0.515	0.685	0.82	0.909	0.96	0.985	0.995	0.998	1	1	1	1	1	1	1	1	1	1	1	1	1						
27	4E-04	0.004	0.021	0.067	0.158	0.299	0.471	0.643	0.786	0.887	0.947	0.978	0.992	0.998	0.999	1	1	1	1	1	1	1	1	1	1	1	1	1					
28	3E-04	0.003	0.017	0.055	0.135	0.264	0.428	0.6	0.75	0.862	0.932	0.971	0.989	0.996	0.999	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
29	2E-04	0.003	0.013	0.046	0.115	0.232	0.387	0.557	0.713	0.834	0.914	0.961	0.984	0.994	0.998	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
30	2E-04	0.002	0.011	0.037	0.098	0.203	0.348	0.514	0.674	0.803	0.894	0.949	0.978	0.992	0.997	0.999	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
$F_{n,p}(x) = 1 - F_{n,1-p}(n-x-1)$																																	

Tab. A.6 Binomialverteilung $p = 0.3$

$n \setminus x$	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
1	0.7	1																															
2	0.49	0.91	1																														
3	0.343	0.784	0.973	1																													
4	0.24	0.652	0.916	0.992	1																												
5	0.168	0.528	0.837	0.969	0.998	1																											
6	0.118	0.42	0.744	0.93	0.989	0.999	1																										
7	0.082	0.329	0.647	0.874	0.971	0.996	1	1																									
8	0.058	0.255	0.552	0.806	0.942	0.989	0.999	1	1																								
9	0.04	0.196	0.463	0.73	0.901	0.975	0.996	1	1	1																							
10	0.028	0.149	0.383	0.65	0.85	0.953	0.989	0.998	1	1	1																						
11	0.02	0.113	0.313	0.57	0.79	0.922	0.978	0.996	0.999	1	1	1																					
12	0.014	0.085	0.253	0.493	0.724	0.882	0.961	0.991	0.998	1	1	1	1																				
13	0.01	0.064	0.202	0.421	0.654	0.835	0.938	0.982	0.996	0.999	1	1	1	1																			
14	0.007	0.047	0.161	0.355	0.584	0.781	0.907	0.969	0.992	0.998	1	1	1	1	1																		
15	0.005	0.035	0.127	0.297	0.515	0.722	0.869	0.95	0.985	0.996	0.999	1	1	1	1	1																	
16	0.003	0.026	0.099	0.246	0.45	0.66	0.825	0.926	0.974	0.993	0.998	1	1	1	1	1	1																
17	0.002	0.019	0.077	0.202	0.389	0.597	0.775	0.895	0.96	0.987	0.997	0.999	1	1	1	1	1	1															
18	0.002	0.014	0.06	0.165	0.333	0.534	0.722	0.859	0.94	0.979	0.994	0.999	1	1	1	1	1	1	1														
19	0.001	0.01	0.046	0.133	0.282	0.474	0.666	0.818	0.916	0.967	0.989	0.997	0.999	1	1	1	1	1	1	1													
20	8E-04	0.008	0.035	0.107	0.238	0.416	0.608	0.772	0.887	0.952	0.983	0.995	0.999	1	1	1	1	1	1	1	1												
21	6E-04	0.006	0.027	0.086	0.198	0.363	0.551	0.723	0.852	0.932	0.974	0.991	0.998	0.999	1	1	1	1	1	1	1	1											
22	4E-04	0.004	0.021	0.068	0.165	0.313	0.494	0.671	0.814	0.908	0.961	0.986	0.996	0.999	1	1	1	1	1	1	1	1	1										
23	3E-04	0.003	0.016	0.054	0.136	0.269	0.44	0.618	0.771	0.88	0.945	0.979	0.993	0.998	0.999	1	1	1	1	1	1	1	1	1									
24	2E-04	0.002	0.012	0.042	0.111	0.229	0.389	0.565	0.725	0.847	0.926	0.969	0.988	0.996	0.999	1	1	1	1	1	1	1	1	1	1								
25	1E-04	0.002	0.009	0.033	0.09	0.193	0.341	0.512	0.677	0.811	0.902	0.956	0.983	0.994	0.998	1	1	1	1	1	1	1	1	1	1	1							
26	9E-05	0.001	0.007	0.026	0.073	0.163	0.297	0.46	0.627	0.771	0.875	0.94	0.974	0.991	0.997	0.999	1	1	1	1	1	1	1	1	1	1	1						
27	7E-05	8E-04	0.005	0.02	0.059	0.136	0.256	0.411	0.577	0.728	0.843	0.92	0.964	0.986	0.995	0.998	1	1	1	1	1	1	1	1	1	1	1	1					
28	5E-05	6E-04	0.004	0.016	0.047	0.113	0.22	0.365	0.528	0.682	0.809	0.897	0.951	0.979	0.992	0.997	0.999	1	1	1	1	1	1	1	1	1	1	1	1				
29	3E-05	4E-04	0.003	0.012	0.038	0.093	0.188	0.321	0.479	0.636	0.771	0.871	0.935	0.971	0.988	0.996	0.999	1	1	1	1	1	1	1	1	1	1	1	1	1			
30	2E-05	3E-04	0.002	0.009	0.03	0.077	0.16	0.281	0.432	0.589	0.73	0.841	0.916	0.96	0.983	0.994	0.998	0.999	1	1	1	1	1	1	1	1	1	1	1	1	1		
$F_{n,p}(x) = 1 - F_{n,1-p}(n-x-1)$																																	

Tab. A.7 Binomialverteilung $p = 0.35$

$n \setminus x$	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
1	0.65	1																																
2	0.423	0.878	1																															
3	0.275	0.718	0.957	1																														
4	0.179	0.563	0.874	0.985	1																													
5	0.116	0.428	0.765	0.946	0.995	1																												
6	0.075	0.319	0.647	0.883	0.978	0.998	1																											
7	0.049	0.234	0.532	0.8	0.944	0.991	0.999	1																										
8	0.032	0.169	0.428	0.706	0.894	0.975	0.996	1	1																									
9	0.021	0.121	0.337	0.609	0.828	0.946	0.989	0.999	1	1	1																							
10	0.013	0.086	0.262	0.514	0.751	0.905	0.974	0.995	0.999	1	1	1																						
11	0.009	0.061	0.2	0.426	0.668	0.851	0.95	0.988	0.998	1	1	1	1																					
12	0.006	0.042	0.151	0.347	0.583	0.787	0.915	0.974	0.994	0.999	1	1	1	1																				
13	0.004	0.03	0.113	0.278	0.501	0.716	0.871	0.954	0.987	0.997	1	1	1	1	1																			
14	0.002	0.021	0.084	0.22	0.423	0.641	0.816	0.925	0.976	0.994	0.999	1	1	1	1	1																		
15	0.002	0.014	0.062	0.173	0.352	0.564	0.755	0.887	0.958	0.988	0.997	1	1	1	1	1	1																	
16	0.001	0.01	0.045	0.134	0.289	0.49	0.688	0.841	0.933	0.977	0.994	0.999	1	1	1	1	1	1																
17	7E-04	0.007	0.033	0.103	0.235	0.42	0.619	0.787	0.901	0.962	0.988	0.997	0.999	1	1	1	1	1	1															
18	4E-04	0.005	0.024	0.078	0.189	0.355	0.549	0.728	0.861	0.94	0.979	0.994	0.999	1	1	1	1	1	1	1														
19	3E-04	0.003	0.017	0.059	0.15	0.297	0.481	0.666	0.815	0.913	0.965	0.989	0.997	0.999	1	1	1	1	1	1	1													
20	2E-04	0.002	0.012	0.044	0.118	0.245	0.417	0.601	0.762	0.878	0.947	0.98	0.994	0.998	1	1	1	1	1	1	1	1												
21	1E-04	0.001	0.009	0.033	0.092	0.201	0.357	0.536	0.706	0.838	0.923	0.969	0.989	0.997	0.999	1	1	1	1	1	1	1	1											
22	8E-05	1E-03	0.006	0.025	0.072	0.163	0.302	0.474	0.647	0.792	0.893	0.953	0.982	0.994	0.998	1	1	1	1	1	1	1	1	1										
23	5E-05	7E-04	0.004	0.018	0.055	0.131	0.253	0.414	0.586	0.741	0.858	0.932	0.972	0.99	0.997	0.999	1	1	1	1	1	1	1	1	1									
24	3E-05	5E-04	0.003	0.013	0.042	0.104	0.211	0.358	0.526	0.687	0.817	0.906	0.958	0.984	0.995	0.998	1	1	1	1	1	1	1	1	1	1								
25	2E-05	3E-04	0.002	0.01	0.032	0.083	0.173	0.306	0.467	0.63	0.771	0.875	0.94	0.975	0.991	0.997	0.999	1	1	1	1	1	1	1	1	1	1							
26	1E-05	2E-04	0.001	0.007	0.024	0.065	0.142	0.26	0.411	0.573	0.722	0.838	0.917	0.962	0.985	0.995	0.998	1	1	1	1	1	1	1	1	1	1	1						
27	9E-06	1E-04	0.001	0.005	0.018	0.051	0.115	0.218	0.358	0.516	0.67	0.798	0.889	0.946	0.977	0.991	0.997	0.999	1	1	1	1	1	1	1	1	1	1	1					
28	6E-06	9E-05	7E-04	0.004	0.014	0.039	0.092	0.182	0.309	0.461	0.616	0.753	0.857	0.926	0.966	0.986	0.995	0.998	1	1	1	1	1	1	1	1	1	1	1					
29	4E-06	6E-05	5E-04	0.003	0.01	0.03	0.074	0.151	0.265	0.408	0.562	0.705	0.821	0.902	0.952	0.979	0.992	0.997	0.999	1	1	1	1	1	1	1	1	1	1	1				
30	2E-06	4E-05	3E-04	0.002	0.008	0.023	0.059	0.124	0.225	0.358	0.508	0.655	0.78	0.874	0.935	0.97	0.988	0.995	0.999	1	1	1	1	1	1	1	1	1	1	1				
$F_{n,p}(x) = 1 - F_{n,1-p}(n-x, 1)$																																		

Tab. A.8 Binomialverteilung $p = 0.4$

$n \setminus x$	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
1	0.6	1																														
2	0.36	0.84	1																													
3	0.216	0.648	0.936	1																												
4	0.13	0.475	0.821	0.974	1																											
5	0.078	0.337	0.683	0.913	0.99	1																										
6	0.047	0.233	0.544	0.821	0.959	0.996	1																									
7	0.028	0.159	0.42	0.71	0.904	0.981	0.998	1																								
8	0.017	0.106	0.315	0.594	0.826	0.95	0.991	0.999	1																							
9	0.01	0.071	0.232	0.483	0.733	0.901	0.975	0.996	1	1																						
10	0.006	0.046	0.167	0.382	0.633	0.834	0.945	0.988	0.998	1	1																					
11	0.004	0.03	0.119	0.296	0.533	0.753	0.901	0.971	0.994	0.999	1	1																				
12	0.002	0.02	0.083	0.225	0.438	0.665	0.842	0.943	0.985	0.997	1	1	1																			
13	0.001	0.013	0.058	0.169	0.353	0.574	0.771	0.902	0.968	0.992	0.999	1	1	1																		
14	8E-04	0.008	0.04	0.124	0.279	0.486	0.692	0.85	0.942	0.982	0.996	0.999	1	1	1																	
15	5E-04	0.005	0.027	0.091	0.217	0.403	0.61	0.787	0.905	0.966	0.991	0.998	1	1	1	1																
16	3E-04	0.003	0.018	0.065	0.167	0.329	0.527	0.716	0.858	0.942	0.981	0.995	0.999	1	1	1	1															
17	2E-04	0.002	0.012	0.046	0.126	0.264	0.448	0.641	0.801	0.908	0.965	0.989	0.997	1	1	1	1	1														
18	1E-04	0.001	0.008	0.033	0.094	0.209	0.374	0.563	0.737	0.865	0.942	0.98	0.994	0.999	1	1	1	1	1	1												
19	6E-05	8E-04	0.005	0.023	0.07	0.163	0.308	0.488	0.667	0.814	0.912	0.965	0.988	0.997	0.999	1	1	1	1	1	1											
20	4E-05	5E-04	0.004	0.016	0.051	0.126	0.25	0.416	0.596	0.755	0.872	0.943	0.979	0.994	0.998	1	1	1	1	1	1	1										
21	2E-05	3E-04	0.002	0.011	0.037	0.096	0.2	0.35	0.524	0.691	0.826	0.915	0.965	0.988	0.996	0.999	1	1	1	1	1	1	1									
22	1E-05	2E-04	0.002	0.008	0.027	0.072	0.158	0.29	0.454	0.624	0.772	0.879	0.945	0.979	0.993	0.998	1	1	1	1	1	1	1	1								
23	8E-06	1E-04	0.001	0.005	0.019	0.054	0.124	0.237	0.388	0.556	0.713	0.836	0.919	0.965	0.987	0.996	0.999	1	1	1	1	1	1	1	1							
24	5E-06	8E-05	7E-04	0.004	0.013	0.04	0.096	0.192	0.328	0.489	0.65	0.787	0.886	0.947	0.978	0.992	0.998	0.999	1	1	1	1	1	1	1	1						
25	3E-06	5E-05	4E-04	0.002	0.009	0.029	0.074	0.154	0.274	0.425	0.586	0.732	0.846	0.922	0.966	0.987	0.996	0.999	1	1	1	1	1	1	1	1	1					
26	2E-06	3E-05	3E-04	0.002	0.007	0.021	0.056	0.122	0.226	0.364	0.521	0.674	0.801	0.892	0.948	0.978	0.992	0.998	0.999	1	1	1	1	1	1	1	1	1				
27	1E-06	2E-05	2E-04	0.001	0.005	0.015	0.042	0.095	0.184	0.309	0.458	0.613	0.75	0.855	0.926	0.966	0.987	0.995	0.999	1	1	1	1	1	1	1	1	1				
28	6E-07	1E-05	1E-04	7E-04	0.003	0.011	0.031	0.074	0.148	0.259	0.399	0.551	0.695	0.813	0.898	0.95	0.978	0.992	0.997	0.999	1	1	1	1	1	1	1	1	1			
29	4E-07	7E-06	7E-05	5E-04	0.002	0.008	0.023	0.057	0.119	0.215	0.343	0.49	0.637	0.766	0.864	0.929	0.967	0.987	0.995	0.998	1	1	1	1	1	1	1	1	1			
30	2E-07	5E-06	5E-05	3E-04	0.002	0.006	0.017	0.044	0.094	0.176	0.291	0.431	0.578	0.715	0.825	0.903	0.952	0.979	0.992	0.997	0.999	1	1	1	1	1	1	1	1			
$F_{n,p}(x) = 1 - F_{n,1-p}(n-x-1)$																																

Tab. A.9 Binomialverteilung $p = 0.45$

$n \setminus x$	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30					
1	0.55	1																																		
2	0.303	0.798	1																																	
3	0.166	0.575	0.909	1																																
4	0.092	0.391	0.759	0.959	1																															
5	0.05	0.256	0.593	0.869	0.982	1																														
6	0.028	0.164	0.442	0.745	0.931	0.992	1																													
7	0.015	0.102	0.316	0.608	0.847	0.964	0.996	1																												
8	0.008	0.063	0.22	0.477	0.74	0.912	0.982	0.998	1																											
9	0.005	0.039	0.15	0.361	0.621	0.834	0.95	0.991	0.999	1																										
10	0.003	0.023	0.1	0.266	0.504	0.738	0.898	0.973	0.995	1	1																									
11	0.001	0.014	0.065	0.191	0.397	0.633	0.826	0.939	0.985	0.998	1	1																								
12	8E-04	0.008	0.042	0.134	0.304	0.527	0.739	0.888	0.964	0.992	0.999	1	1																							
13	4E-04	0.005	0.027	0.093	0.228	0.427	0.644	0.821	0.93	0.98	0.996	0.999	1	1																						
14	2E-04	0.003	0.017	0.063	0.167	0.337	0.546	0.741	0.881	0.957	0.989	0.998	1	1	1																					
15	1E-04	0.002	0.011	0.042	0.12	0.261	0.452	0.654	0.818	0.923	0.975	0.994	0.999	1	1	1																				
16	7E-05	1E-03	0.007	0.028	0.085	0.198	0.366	0.563	0.744	0.876	0.951	0.985	0.997	0.999	1	1	1																			
17	4E-05	6E-04	0.004	0.018	0.06	0.147	0.29	0.474	0.663	0.817	0.917	0.97	0.991	0.998	1	1	1	1																		
18	2E-05	3E-04	0.003	0.012	0.041	0.108	0.226	0.391	0.578	0.747	0.872	0.946	0.982	0.995	0.999	1	1	1	1	1																
19	1E-05	2E-04	0.002	0.008	0.028	0.078	0.173	0.317	0.494	0.671	0.816	0.913	0.966	0.989	0.997	0.999	1	1	1	1	1															
20	6E-06	1E-04	9E-04	0.005	0.019	0.055	0.13	0.252	0.414	0.591	0.751	0.869	0.942	0.979	0.994	0.998	1	1	1	1	1	1														
21	4E-06	6E-05	6E-04	0.003	0.013	0.039	0.096	0.197	0.341	0.512	0.679	0.816	0.909	0.962	0.987	0.996	0.999	1	1	1	1	1	1													
22	2E-06	4E-05	3E-04	0.002	0.008	0.027	0.071	0.152	0.276	0.435	0.604	0.754	0.867	0.938	0.976	0.992	0.998	1	1	1	1	1	1	1												
23	1E-06	2E-05	2E-04	0.001	0.005	0.019	0.051	0.115	0.22	0.364	0.528	0.687	0.816	0.906	0.959	0.985	0.995	0.999	1	1	1	1	1	1	1											
24	6E-07	1E-05	1E-04	8E-04	0.004	0.013	0.036	0.086	0.173	0.299	0.454	0.615	0.758	0.866	0.935	0.973	0.99	0.997	0.999	1	1	1	1	1	1											
25	3E-07	7E-06	7E-05	5E-04	0.002	0.009	0.026	0.064	0.134	0.242	0.384	0.543	0.694	0.817	0.904	0.956	0.983	0.994	0.998	1	1	1	1	1	1	1										
26	2E-07	4E-06	4E-05	3E-04	0.001	0.006	0.018	0.047	0.102	0.194	0.32	0.471	0.626	0.762	0.865	0.933	0.971	0.989	0.996	0.999	1	1	1	1	1	1	1									
27	1E-07	2E-06	3E-05	2E-04	9E-04	0.004	0.013	0.034	0.077	0.153	0.263	0.403	0.556	0.7	0.819	0.902	0.954	0.981	0.993	0.998	0.999	1	1	1	1	1	1	1								
28	5E-08	1E-06	1E-05	1E-04	6E-04	0.003	0.009	0.024	0.058	0.119	0.213	0.34	0.487	0.636	0.765	0.865	0.93	0.969	0.988	0.996	0.999	1	1	1	1	1	1	1	1							
29	3E-08	7E-07	9E-06	7E-05	4E-04	0.002	0.006	0.017	0.043	0.091	0.171	0.283	0.421	0.569	0.707	0.82	0.901	0.951	0.979	0.992	0.997	0.999	1	1	1	1	1	1	1	1						
30	2E-08	4E-07	5E-06	4E-05	2E-04	0.001	0.004	0.012	0.031	0.069	0.135	0.233	0.359	0.502	0.645	0.769	0.864	0.929	0.967	0.986	0.995	0.998	1	1	1	1	1	1	1	1	1					
$F_{n,p}(x) = 1 - F_{n,1-p}(n-x, 1)$																																				

Tab. A.10 Binomialverteilung $p = 0.5$

$n \setminus x$	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
1	0.5	1																														
2	0.25	0.75	1																													
3	0.125	0.5	0.875	1																												
4	0.063	0.313	0.688	0.938	1																											
5	0.031	0.188	0.5	0.813	0.969	1																										
6	0.016	0.109	0.344	0.656	0.891	0.984	1																									
7	0.008	0.063	0.227	0.5	0.773	0.938	0.992	1																								
8	0.004	0.036	0.145	0.363	0.637	0.855	0.965	0.996	1																							
9	0.002	0.02	0.09	0.254	0.5	0.746	0.91	0.98	0.998	1																						
10	1E-03	0.011	0.055	0.172	0.377	0.623	0.828	0.945	0.989	0.999	1																					
11	5E-04	0.006	0.033	0.113	0.274	0.5	0.726	0.887	0.967	0.994	1	1																				
12	2E-04	0.003	0.019	0.073	0.194	0.387	0.613	0.806	0.927	0.981	0.997	1	1	1																		
13	1E-04	0.002	0.011	0.046	0.133	0.291	0.5	0.709	0.867	0.954	0.989	0.998	1	1	1																	
14	6E-05	9E-04	0.006	0.029	0.09	0.212	0.395	0.605	0.788	0.91	0.971	0.994	0.999	1	1	1																
15	3E-05	5E-04	0.004	0.018	0.059	0.151	0.304	0.5	0.696	0.849	0.941	0.982	0.996	1	1	1	1															
16	2E-05	3E-04	0.002	0.011	0.038	0.105	0.227	0.402	0.598	0.773	0.895	0.962	0.989	0.998	1	1	1	1														
17	8E-06	1E-04	0.001	0.006	0.025	0.072	0.166	0.315	0.5	0.685	0.834	0.928	0.975	0.994	0.999	1	1	1	1													
18	4E-06	7E-05	7E-04	0.004	0.015	0.048	0.119	0.24	0.407	0.593	0.76	0.881	0.952	0.985	0.996	0.999	1	1	1	1												
19	2E-06	4E-05	4E-04	0.002	0.01	0.032	0.084	0.18	0.324	0.5	0.676	0.82	0.916	0.968	0.99	0.998	1	1	1	1	1											
20	1E-06	2E-05	2E-04	0.001	0.006	0.021	0.058	0.132	0.252	0.412	0.588	0.748	0.868	0.942	0.979	0.994	0.999	1	1	1	1	1										
21	5E-07	1E-05	1E-04	7E-04	0.004	0.013	0.039	0.095	0.192	0.332	0.5	0.668	0.808	0.905	0.961	0.987	0.996	0.999	1	1	1	1	1									
22	2E-07	5E-06	5E-05	4E-04	0.002	0.008	0.026	0.067	0.143	0.262	0.416	0.584	0.738	0.857	0.933	0.974	0.992	0.998	1	1	1	1	1									
23	1E-07	3E-06	3E-05	2E-04	0.001	0.005	0.017	0.047	0.105	0.202	0.339	0.5	0.661	0.798	0.895	0.953	0.983	0.995	0.999	1	1	1	1	1								
24	6E-08	1E-06	2E-05	1E-04	8E-04	0.003	0.011	0.032	0.076	0.154	0.271	0.419	0.581	0.729	0.846	0.924	0.968	0.989	0.997	0.999	1	1	1	1	1							
25	3E-08	8E-07	1E-05	8E-05	5E-04	0.002	0.007	0.022	0.054	0.115	0.212	0.345	0.5	0.655	0.788	0.885	0.946	0.978	0.993	0.998	1	1	1	1	1	1						
26	1E-08	4E-07	5E-06	4E-05	3E-04	0.001	0.005	0.014	0.038	0.084	0.163	0.279	0.423	0.577	0.721	0.837	0.916	0.962	0.986	0.995	0.999	1	1	1	1	1	1					
27	7E-09	2E-07	3E-06	2E-05	2E-04	8E-04	0.003	0.01	0.026	0.061	0.124	0.221	0.351	0.5	0.649	0.779	0.876	0.939	0.974	0.99	0.997	0.999	1	1	1	1	1	1				
28	4E-09	1E-07	2E-06	1E-05	9E-05	5E-04	0.002	0.006	0.018	0.044	0.092	0.172	0.286	0.425	0.575	0.714	0.828	0.908	0.956	0.982	0.994	0.998	1	1	1	1	1	1	1			
29	2E-09	6E-08	8E-07	8E-06	5E-05	3E-04	0.001	0.004	0.012	0.031	0.068	0.132	0.229	0.356	0.5	0.644	0.771	0.868	0.932	0.969	0.988	0.996	0.999	1	1	1	1	1	1	1		
30	9E-10	3E-08	4E-07	4E-06	3E-05	2E-04	7E-04	0.003	0.008	0.021	0.049	0.1	0.181	0.292	0.428	0.572	0.708	0.819	0.9	0.951	0.979	0.992	0.997	0.999	1	1	1	1	1	1	1	
$F_{n,p}(x) = 1 - F_{n,1-p}(n-x-1)$																																

A.2 Standardnormalverteilung

In der oberen Tabelle sind die Werte der Verteilungsfunktion der Standardnormalverteilung zu gegebenen Werten tabelliert. In der unteren Tabelle, die man meistens für Tests und Konfidenzintervalle braucht, sind die Quantile (die „x-Werte“) der Standardnormalverteilung zu gegebenen Wahrscheinlichkeiten dargestellt.

Tab. A.11 Werte der Standardnormalverteilung und Quantile

	0	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0	0.5	0.50398936	0.50797831	0.51196647	0.51595344	0.51993881	0.52392218	0.52790317	0.53188137	0.53585639
0.1	0.539827837	0.54379531	0.54775843	0.55171679	0.55567	0.55961769	0.56355946	0.56749493	0.57142372	0.57534543
0.2	0.579259709	0.58316616	0.58706442	0.59095412	0.59483487	0.59870633	0.60256811	0.60641987	0.61026125	0.61409188
0.3	0.617911422	0.62171952	0.62551583	0.62930002	0.63307174	0.63683065	0.64057643	0.64430875	0.64802729	0.65173173
0.4	0.655421742	0.65909703	0.66275727	0.66640218	0.67003145	0.67364478	0.67724189	0.68082249	0.6843863	0.68793305
0.5	0.691462461	0.69497427	0.69846821	0.70194403	0.70540148	0.70884031	0.71226028	0.71566115	0.71904269	0.72240468
0.6	0.725746882	0.7290691	0.73237111	0.73565271	0.7389137	0.74215389	0.74537309	0.7485711	0.75174777	0.75490291
0.7	0.758036348	0.76114793	0.7642375	0.76730491	0.77035	0.77337265	0.77637271	0.77935005	0.78230456	0.78523612
0.8	0.788144601	0.79102991	0.79389195	0.79673061	0.79954581	0.80233746	0.80510548	0.8078498	0.81057035	0.81326706
0.9	0.815939875	0.81858875	0.82121362	0.82381446	0.82639122	0.82894387	0.83147239	0.83397675	0.83645694	0.83891294
1	0.841344746	0.84375235	0.84613577	0.848495	0.85083005	0.85314094	0.8554277	0.85769035	0.85992891	0.86214343
1.1	0.864333939	0.86650049	0.86864312	0.87076189	0.87285685	0.87492806	0.8769756	0.87899952	0.88099989	0.8829768
1.2	0.88493033	0.88686055	0.88876756	0.89065145	0.8925123	0.89435023	0.89616532	0.89795768	0.89972743	0.90147467
1.3	0.903199515	0.90490208	0.90658249	0.90824086	0.90987733	0.91149201	0.91308504	0.91465655	0.91620668	0.91773556
1.4	0.919243341	0.92073016	0.92219616	0.92364149	0.9250663	0.92647074	0.92785496	0.92921912	0.93056338	0.93188788
1.5	0.933192799	0.93447829	0.93574451	0.93699164	0.93821982	0.93942924	0.94062006	0.94179244	0.94294657	0.9440826
1.6	0.945200708	0.94630107	0.94738386	0.94844925	0.94949742	0.95052853	0.95154277	0.95254032	0.95352134	0.95448602
1.7	0.955434537	0.95636706	0.95728378	0.95818486	0.95907049	0.95994084	0.9607961	0.96163643	0.96246202	0.96327304
1.8	0.964069681	0.96485211	0.9656205	0.96637503	0.96711588	0.96784323	0.96855724	0.96925809	0.96994596	0.97062102
1.9	0.97128344	0.97193339	0.97257105	0.97319658	0.97381016	0.97441194	0.9750021	0.97558081	0.97614824	0.97670453
2	0.977249868	0.97778441	0.97830831	0.97882173	0.97932484	0.97981778	0.98030073	0.98077383	0.98123723	0.98169111
2.1	0.982135579	0.98257082	0.98299698	0.98341419	0.98382262	0.98422239	0.98461367	0.98499658	0.98537127	0.98573788
2.2	0.986096552	0.98644742	0.98679062	0.98712628	0.98745454	0.98777553	0.98808937	0.98839621	0.98869616	0.98898934
2.3	0.98927589	0.98955592	0.98982956	0.99009692	0.99035813	0.99061329	0.99086253	0.99110596	0.99134368	0.99157581
2.4	0.991802464	0.99202374	0.99223975	0.99245059	0.99265637	0.99285719	0.99305315	0.99324435	0.99343088	0.99361285
2.5	0.993790335	0.99396344	0.99413226	0.99429687	0.99445738	0.99461385	0.99476639	0.99491507	0.99505998	0.9952012
2.6	0.995338812	0.99547289	0.99560351	0.99573076	0.9958547	0.99597541	0.99609297	0.99620744	0.99631889	0.9964274
2.7	0.996533026	0.99663584	0.9967359	0.99683328	0.99692804	0.99702024	0.99710993	0.99719719	0.99728206	0.9973646
2.8	0.99744487	0.99752293	0.99759882	0.9976726	0.99774432	0.99781404	0.99788179	0.99794764	0.99801162	0.99807379
2.9	0.998134187	0.99819286	0.99824984	0.99830519	0.99835894	0.99841113	0.9984618	0.998511	0.99855876	0.99860511
3	0.998650102	0.99869376	0.99873613	0.99877723	0.99881711	0.99885579	0.99889332	0.99892971	0.998965	0.99899922
3.1	0.999032397	0.99906456	0.99909574	0.99912597	0.99915526	0.99918365	0.99921115	0.99923781	0.99926362	0.99928864
3.2	0.999312862	0.99933633	0.99935905	0.99938105	0.99940235	0.99942297	0.99944294	0.99946226	0.99948096	0.99949906
3.3	0.999516576	0.99953352	0.99954991	0.99956577	0.99958111	0.99959594	0.99961029	0.99962416	0.99963757	0.99965054
3.4	0.999663071	0.99967519	0.99968689	0.99969821	0.99970914	0.99971971	0.99972991	0.99973977	0.99974929	0.99975849
3.5	0.999767371	0.99977595	0.99978423	0.99979222	0.99979994	0.99980738	0.99981457	0.99982151	0.9998282	0.99983466
3.6	0.999840891	0.9998469	0.9998527	0.99985829	0.99986368	0.99986888	0.99987389	0.99987872	0.99988338	0.99988787
3.7	0.9998922	0.99989637	0.99990039	0.99990426	0.99990799	0.99991158	0.99991504	0.99991838	0.99992159	0.99992468
3.8	0.999927652	0.99993052	0.99993327	0.99993593	0.99993848	0.99994094	0.99994331	0.99994558	0.99994777	0.99994988
3.9	0.999951904	0.99995385	0.99995573	0.99995753	0.99995926	0.99996092	0.99996253	0.99996406	0.99996554	0.99996696
4	0.999968329	0.99996964	0.9999709	0.99997211	0.99997327	0.99997439	0.99997546	0.99997649	0.99997748	0.99997843
4.1	0.999979342	0.99998022	0.99998106	0.99998186	0.99998263	0.99998338	0.99998409	0.99998477	0.99998542	0.99998605
4.2	0.999986654	0.99998723	0.99998778	0.99998832	0.99998882	0.99998931	0.99998978	0.99999023	0.99999066	0.99999107
4.3	0.99999146	0.99999184	0.9999922	0.99999254	0.99999288	0.99999319	0.9999935	0.99999379	0.99999407	0.99999433
4.4	0.999994587	0.99999483	0.99999506	0.99999529	0.9999955	0.99999571	0.9999959	0.99999609	0.99999627	0.99999644
Quantile	für Konfidenzintervalle und Tests									
p	50.0%	60.0%	70.0%	80.0%	90.0%	95.0%	97.5%	99.0%	99.5%	99.9%
x _p	0	0.2533471	0.52440051	0.84162123	1.28155157	1.64485363	1.95996398	2.32634787	2.5758293	3.09023231
Φ(-x) = 1-Φ(x)	Φ(x) ≈ 1 für x > 4.5		Φ(x) ≈ 0 für x < -4.5			x _p = -x _{1-p}				

A.3 Quantile der t-Verteilung

Tab. A.12 Quantile $t_f(p)$ der t-Verteilung

	f										
p		1	2	3	4	5	6	7	8	9	10
	60.0%	0.3249197	0.28867513	0.27667066	0.27072229	0.26718087	0.26483453	0.26316686	0.2619211	0.26095534	0.26018483
	70.0%	0.72654253	0.6172134	0.58438973	0.56864906	0.55942964	0.55338092	0.54910966	0.54593376	0.54348024	0.54152804
	75.0%	1	0.81649658	0.76489233	0.74069708	0.72668684	0.7175582	0.71114178	0.70638661	0.70272215	0.69981206
	80.0%	1.37638192	1.06066017	0.97847231	0.94096458	0.91954378	0.90570329	0.89602964	0.88888952	0.88340386	0.87905783
	90.0%	3.07768354	1.88561808	1.63774435	1.53320627	1.47588405	1.43975575	1.41492393	1.39681531	1.38302874	1.37218364
	95.0%	6.31375151	2.91998558	2.35336343	2.13184679	2.01504837	1.94318028	1.89457861	1.85954804	1.83311293	1.81246112
	97.5%	12.7062047	4.30265273	3.18244631	2.77644511	2.57058184	2.44691185	2.36462425	2.30600414	2.26215716	2.22813885
	99.0%	31.820516	6.96455673	4.54070286	3.74694739	3.36493	3.1426684	2.99795157	2.89645945	2.82143793	2.76376946
	99.5%	63.6567412	9.9248432	5.84090931	4.60409487	4.03214298	3.70742802	3.4994833	3.35538733	3.24983554	3.16927267
	99.9%	318.308839	22.3271248	10.2145319	7.17318222	5.89342953	5.20762624	4.78528963	4.50079093	4.29680566	4.14370049
	f										
p		11	12	13	14	15	16	17	18	19	20
	60.0%	0.25955586	0.25903275	0.25859086	0.25821265	0.2578853	0.25759919	0.25734701	0.25712304	0.25692282	0.25674275
	70.0%	0.53993788	0.53861767	0.53750409	0.53655218	0.53572913	0.53501045	0.53437748	0.53381575	0.53331388	0.53286279
	75.0%	0.69744533	0.69548287	0.6938293	0.69241707	0.69119695	0.69013225	0.68919508	0.68836381	0.68762146	0.6869545
	80.0%	0.87552998	0.87260929	0.87015153	0.86805478	0.86624497	0.864667	0.86327902	0.86204867	0.86095055	0.85996444
	90.0%	1.36343032	1.35621733	1.35017129	1.34503037	1.34060561	1.33675717	1.33337939	1.33039094	1.32772821	1.32534071
	95.0%	1.79588482	1.78228756	1.7709334	1.76131014	1.75305036	1.74588368	1.73960673	1.73406361	1.72913281	1.72471824
	97.5%	2.20098516	2.17881283	2.16036866	2.14478669	2.13144955	2.1199053	2.10981558	2.10092204	2.09302405	2.08596345
	99.0%	2.71807918	2.68099799	2.65030884	2.62449407	2.6024803	2.58348719	2.56693398	2.55237963	2.53948319	2.527977
	99.5%	3.10580652	3.05453959	3.01227584	2.97684273	2.94671288	2.92078162	2.89823052	2.87844047	2.86093461	2.84533971
	99.9%	4.02470104	3.92963326	3.85198239	3.78739024	3.73283443	3.68615479	3.64576738	3.61048488	3.57940015	3.55180834
	f										
p		21	22	23	24	25	26	27	28	29	30
	60.0%	0.25657995	0.25643203	0.25629706	0.2561734	0.25605968	0.25595477	0.25585766	0.25576752	0.25568363	0.25560536
	70.0%	0.53245515	0.53208496	0.5317473	0.53143806	0.53115379	0.53089159	0.53064899	0.53042386	0.5302144	0.530019
	75.0%	0.68635199	0.68580503	0.68530628	0.68484963	0.68442996	0.68404297	0.68368498	0.68335284	0.68304386	0.68275569
	80.0%	0.85907404	0.85826605	0.85752955	0.85685546	0.85623616	0.85566523	0.85513723	0.85464749	0.85419199	0.85376726
	90.0%	1.32318787	1.32123674	1.31946024	1.31783593	1.31634507	1.31497186	1.31370291	1.31252678	1.31143365	1.31041503
	95.0%	1.7207429	1.71714437	1.71387153	1.71088208	1.70814076	1.70561792	1.70328845	1.70113093	1.69912703	1.69726089
	97.5%	2.07961384	2.07387307	2.06865761	2.06389856	2.05953855	2.05552944	2.05183052	2.04840714	2.04522964	2.04227246
	99.0%	2.51764802	2.50832455	2.49986674	2.49215947	2.48510718	2.47862982	2.47265991	2.4671401	2.46202136	2.45726154
	99.5%	2.83135956	2.81875606	2.80733568	2.7969395	2.78743581	2.77871453	2.77068296	2.76326246	2.7563859	2.74995655
	99.9%	3.52715367	3.50499203	3.48496437	3.4667773	3.45018873	3.43499718	3.42103362	3.40815518	3.39624029	3.38518487
	f										
p		31	32	33	34	35	36	37	38	39	40
	60.0%	0.25553217	0.25546357	0.25539914	0.25533852	0.25528138	0.25522743	0.2551764	0.25512807	0.25508223	0.25503869
	70.0%	0.52983632	0.52966513	0.5295044	0.52935319	0.52921069	0.52907615	0.52894893	0.52882845	0.52871419	0.52860568
	75.0%	0.68248631	0.68223392	0.68199698	0.6817741	0.68156408	0.68136582	0.68117838	0.68100088	0.68083256	0.68067272
	80.0%	0.8533703	0.85299845	0.85264942	0.85232117	0.85201189	0.85171998	0.85144403	0.85118276	0.85093502	0.8506998
	90.0%	1.30946355	1.30857279	1.30773712	1.30695159	1.3062118	1.30551389	1.30485438	1.3042302	1.30363859	1.30307705
	95.0%	1.69551878	1.69388875	1.69236031	1.69092426	1.68957246	1.68829771	1.68709362	1.68595446	1.68487512	1.68385101
	97.5%	2.03951345	2.03693334	2.0345153	2.03224451	2.03010793	2.028094	2.02619246	2.02439416	2.02269092	2.02107539
	99.0%	2.45282419	2.44867763	2.4447942	2.44114963	2.43772255	2.43449406	2.43144474	2.42856763	2.42584141	2.42325665
	99.5%	2.74404192	2.73848148	2.73327664	2.72839437	2.72380559	2.71948463	2.71540872	2.71155576	2.70791318	2.70445927
	99.9%	3.37489928	3.36530593	3.35633728	3.34793431	3.3400452	3.33262426	3.32563105	3.31902966	3.31278808	3.30687771
	f										
p		41	42	43	44	45	46	47	48	49	50
	60.0%	0.25499728	0.25495784	0.25492025	0.25488438	0.2548501	0.25481732	0.25478594	0.25475587	0.25472703	0.25469934
	70.0%	0.52850249	0.52840425	0.5283106	0.52822123	0.52813585	0.52805421	0.52797606	0.52790118	0.52782937	0.52776045
	75.0%	0.68052074	0.68037604	0.68023813	0.68010654	0.67998083	0.67986063	0.67974557	0.67963535	0.67952965	0.6794282
	80.0%	0.85047616	0.85026328	0.85006039	0.8498668	0.8496819	0.84950511	0.84933591	0.84917382	0.8490184	0.84886924
	90.0%	1.30254336	1.30203549	1.30155161	1.30109006	1.30064933	1.30022805	1.29982495	1.29943888	1.29906878	1.29871369
	95.0%	1.682878	1.68195236	1.6810707	1.68022998	1.67942739	1.67866041	1.67792672	1.6772242	1.67655089	1.67590503
	97.5%	2.01954097	2.0180817	2.0166922	2.01536757	2.01410339	2.0128956	2.01174051	2.01063476	2.00957524	2.00855911
	99.0%	2.42080299	2.41847036	2.41625013	2.41413437	2.41211588	2.4101881	2.40834505	2.40658127	2.40489176	2.40327192
	99.5%	2.7011813	2.69806619	2.69510208	2.69227827	2.68958502	2.68701349	2.68455562	2.68220403	2.67995197	2.67779327
	99.9%	3.30127289	3.29595053	3.29088982	3.28607195	3.28147985	3.27709803	3.27291238	3.26891002	3.26507917	3.26140906

A.4 Quantile der χ^2 -Verteilung

Tab. A.13 Quantile $\chi^2_f(p)$ der χ^2 -Verteilung

f \ p	1	2	3	4	5	6	7	8	9	10
0.5%	3.927E-05	0.01002508	0.07172177	0.20698909	0.4117419	0.67572678	0.98925668	1.34441309	1.7349329	2.15585648
1.0%	0.00015709	0.02010067	0.1148318	0.29710948	0.55429808	0.87209033	1.23904231	1.64649737	2.08790074	2.55821216
2.5%	0.00098207	0.05063562	0.21579528	0.48441856	0.83121161	1.23734425	1.68986918	2.17973075	2.7003895	3.24697278
5.0%	0.00393214	0.10258659	0.35184632	0.71072302	1.14547623	1.63538289	2.16734991	2.73263679	3.32511284	3.94029914
10.0%	0.01579077	0.21072103	0.58437437	1.06362322	1.61030799	2.20413066	2.83310692	3.48953913	4.16815901	4.86518205
20.0%	0.06418475	0.4462871	1.00517401	1.64877662	2.34253431	3.07008841	3.82232191	4.59357361	5.38005321	6.17907926
25.0%	0.10153104	0.57536414	1.2125329	1.92255753	2.67460281	3.45459884	4.25485218	5.07064042	5.89882588	6.73720077
40.0%	0.2749959	1.02165125	1.8691684	2.75284268	3.65549962	4.57015381	5.49323486	6.42264556	7.3570345	8.29547176
50.0%	0.45493642	1.38629436	2.36597388	3.35669398	4.35146019	5.34812063	6.3458112	7.3441215	8.34283269	9.34181777
60.0%	0.7083263	1.83258146	2.94616607	4.04462649	5.13186707	6.21075719	7.28320763	8.35052547	9.41364009	10.4732362
75.0%	1.3233037	2.77258872	4.10834494	5.38526906	6.62567976	7.84080412	9.03714755	10.218855	11.3887514	12.5488614
80.0%	1.64237442	3.21887582	4.64162768	5.98861669	7.28927613	8.55805972	9.8032499	11.0300914	12.2421455	13.4419576
90.0%	2.7054345	4.60517019	6.25138863	7.77944034	9.2363569	10.6446407	12.0170366	13.3615661	14.6836566	15.9871792
95.0%	3.84145882	5.99146455	7.8147279	9.48772904	11.0704977	12.5915872	14.0671404	15.5073131	16.9189776	18.3070381
97.5%	5.02388619	7.37775891	9.3484036	11.1432868	12.832502	14.4493753	16.0127643	17.5345461	19.0227678	20.4831774
99.0%	6.6348866	9.1034037	11.3448657	13.2767041	15.0862725	16.8118938	18.4753069	20.090235	21.6659943	23.2092512
99.5%	7.87943858	10.5966347	12.8381565	14.860259	16.7496023	18.5475842	20.2777399	21.954955	23.5893508	25.1881796
99.9%	10.8275662	13.8155106	16.2662362	18.466827	20.5150057	22.4577445	24.3218863	26.1244816	27.8717649	29.5882984

f \ p	11	12	13	14	15	16	17	18	19	20
0.5%	2.60322189	3.07382364	3.56503458	4.07467496	4.60091557	5.14220544	5.6972171	6.26480468	6.84397145	7.43384426
1.0%	3.05348411	3.57056897	4.10691547	4.66042506	5.22634888	5.81221247	6.40775978	7.0149109	7.63272965	8.26039833
2.5%	3.81574825	4.40378851	5.00875051	5.6287261	6.2621378	6.90766435	7.56418645	8.23074619	8.90651648	9.59077739
5.0%	4.57481308	5.22602949	5.89186434	6.57063138	7.26094393	7.96164557	8.6717602	9.39045508	10.1170131	10.8508114
10.0%	5.5778479	6.30379606	7.04150458	7.78953361	8.54675624	9.31223635	10.0851863	10.8649361	11.65091	12.4426092
20.0%	6.98867351	7.80732768	8.63386083	9.46732799	10.306959	11.1521165	12.0022657	12.8569531	13.7157897	14.5784392
25.0%	7.58414279	8.43841877	9.29906553	10.1653138	11.0365377	11.9122197	12.7919264	13.6752904	14.5619967	15.4517735
40.0%	9.23728542	10.1819714	11.1291399	12.0784825	13.0297496	13.9827363	14.9372718	15.8932117	16.850433	17.8088295
50.0%	10.3409981	11.3403224	12.3397559	13.3392741	14.3388595	15.3384989	16.3381824	17.3379024	18.3376529	19.3374292
60.0%	11.5298338	12.583838	13.635571	14.6852943	15.733223	16.7795367	17.8243873	18.8699041	19.9101989	20.9513684
75.0%	13.7069227	14.8450317	15.9839062	17.1169336	18.2450856	19.3688602	20.4886762	21.6048898	22.7178067	23.8276952
80.0%	14.6314205	15.8119862	16.984797	18.1507706	19.3106571	20.4650793	21.6145605	22.7595458	23.9004172	25.0375056
90.0%	17.2750086	18.5493478	19.8119293	21.0641442	22.3071296	23.5418289	24.7690353	25.9894231	27.203571	28.4119806
95.0%	19.6751376	21.0260698	22.3620325	23.6847913	24.9957901	26.2962276	27.5871116	28.8692994	30.1435272	31.4104328
97.5%	21.9200493	23.3366642	24.7356049	26.118948	27.4883929	28.8453507	30.1910091	31.5263784	32.8523269	34.1696069
99.0%	24.7249703	26.2169673	27.6882496	29.1412377	30.5779142	31.9999269	33.4086636	34.8053057	36.1908991	37.5662348
99.5%	26.7568489	28.2995188	29.8194712	31.3193946	32.8013206	34.2671865	35.7184657	37.1564515	38.5822566	39.9968463
99.9%	31.2641336	32.9094904	34.528179	36.1232737	37.6972982	39.2523548	40.7902167	42.3123963	43.820196	45.3147466

f \ p	21	22	23	24	25	26	27	28	29	30
0.5%	8.03365342	8.6427164	9.26042478	9.8862335	10.5196521	11.1602374	11.8075874	12.4613359	13.1211489	13.7867199
1.0%	8.89719794	9.54249234	10.1957156	10.8563615	11.5239754	12.1981469	12.8785044	13.5647098	14.2564546	14.9534565
2.5%	10.2828978	10.9823207	11.6885519	12.4011502	13.11972	13.843905	14.5733827	15.3078606	16.0470717	16.7907723
5.0%	11.5913052	12.3380146	13.0905142	13.848425	14.6114076	15.3791566	16.1513958	16.927875	17.7083662	18.492661
10.0%	13.239598	14.0414932	14.8479558	15.6586841	16.473408	17.291885	18.113896	18.9392424	19.7677436	20.5992346
20.0%	15.4446084	16.3140398	17.1865059	18.0618043	18.9397545	19.820194	20.7029764	21.5879693	22.475052	23.3641146
25.0%	16.3443838	17.2396194	18.1372967	19.0372525	19.9393409	20.8434311	21.7494005	22.6571557	23.5665861	24.4776077
40.0%	18.7683091	19.728791	20.6902042	21.6524856	22.6155789	23.5794337	24.5440047	25.5092507	26.4751344	27.4416221
50.0%	20.3372276	21.3370448	22.3368784	23.3367263	24.3365867	25.3364581	26.3363393	27.3362292	28.3361269	29.3360315
60.0%	21.9914975	23.036609	24.0689248	25.1063482	26.142984	27.1788796	28.2140781	29.2486184	30.282536	31.3158632
75.0%	24.934477	26.039265	27.141336	28.24115	29.3388503	30.4345564	31.5284116	32.6204941	33.7109086	34.7997425
80.0%	26.1710999	27.301454	28.4287925	29.5533152	30.6752009	31.7946101	32.9116877	34.0265651	35.1393618	36.2501868
90.0%	29.6150894	30.8132823	32.0068997	33.1962443	34.381587	35.5631713	36.7412167	37.9159225	39.1474698	40.2560237
95.0%	32.6705733	33.9244385	35.1724616	36.4150285	37.6524841	38.8851387	40.1132721	41.3371382	42.5569678	43.7729718
97.5%	35.4788759	36.7807121	38.0756273	39.364077	40.6464691	41.9231701	43.194511	44.4607918	45.7222858	46.9792422
99.0%	38.9321727	40.2893604	41.6383981	42.9798201	44.3141049	45.6416827	46.9629421	48.2782358	49.5878845	50.8921813
99.5%	41.4010648	42.795655	44.1812752	45.5585119	46.9278902	48.2898823	49.6449153	50.9933763	52.3356178	53.6719619
99.9%	46.797038	48.2679423	49.7282325	51.1785978	52.6196558	54.0519624	55.4760202	56.8922854	58.3011735	59.7030643

f \ p	31	32	33	34	35	36	37	38	39	40
0.5%	14.4577674	15.1340321	15.8152744	16.5012725	17.1918203	17.8867265	18.5858125	19.2889116	19.9958679	20.7065353
1.0%	15.6544564	16.3622155	17.0735137	17.7891469	18.5089262	19.2326758	19.960232	20.6914421	21.4261631	22.1642613
2.5%	17.5387386	18.2907649	19.0466615	19.8062529	20.5693766	21.3358816	22.1056272	22.8784823	23.6543246	24.4330392
5.0%	19.2805686	20.0719135	20.866534	21.6642807	22.4650152	23.268609	24.0749426	24.8839044	25.6953904	26.5093032
10.0%	21.4335645	22.2705945	23.1101967	23.9522533	24.7966548	25.6432999	26.4920943	27.34295	28.1957852	29.0505229
20.0%	24.2550564	25.1477851	26.0422156	26.9382694	27.8358737	28.7349613	29.6354694	30.5373397	31.4405178	32.3449526
25.0%	25.3901393	26.3041066	27.2194412	28.1360797	29.0539637	29.973039	30.8932552	31.8145653	32.7369256	33.6602949
40.0%	28.4086825	29.3762873	30.3444103	31.3130273	32.282116	33.2516557	34.2216272	35.1920126	36.1627952	37.1339595
50.0%	30.3359425	31.3358591	32.3357809	33.3357074	34.3356381	35.3355728	36.3355111	37.3354527	38.3353974	39.3353448
60.0%	32.3486299	33.3808633	34.4125885	35.4438288	36.4746058	37.5049393	38.534848	39.5643492	40.5934591	41.6221929
75.0%	35.8870759	36.9729821	38.057529	39.140779	40.2227899	41.3036155	42.3833057	43.461907	44.5394627	45.6160136
80.0%	37.1931399	38.4663128	39.57179	40.6756494	41.7779633	42.8787986	43.9782175	45.0762782	46.1730347	47.2685377
90.0%	41.4217358	42.5847451	43.7451796	44.9031575	46.0587884	47.2121739	48.3634084	49.5125798	50.6597705	51.8050572
95.0%	44.9853433	46.1942595	47.3998839	48.6023674	49.8018496	50.9984602	52.1923197	53.3835406	54.5722278	55.7584793
97.5%	48.2318896	49.4804377	50.7250801	51.9659952	53.2033485	54.4372936	55.6679733	56.8955205	58.1200597	59.3417071
99.0%	52.1913948	53.4857718	54.7755398	56.0609087	57.3420734	58.6192145	59.8925	61.1620868	62.428121	63.6907398
99.5%	55.0027039	56.3281115	57.6484453	58.9639259	60.2747709	61.5811791	62.8833355	64.1814124	65.4755709	66.7659618
99.9%	61.0983061	62.4872191	63.8700985	65.2472175	66.6188288	67.9651676	69.3464525	70.7028874	72.0544663	73.4019575

A.5 Quantile der F-Verteilung

Bitte denken Sie daran, dass Sie die Tabellen nur für $p = 95\%$ bzw. $p = 99\%$ anwenden dürfen, und erinnern Sie sich ggf. an die Umrechnungsformel in Abschn. 18.2.

Tab. A.14 Quantile $F_{m,n}(p)$ der F-Verteilung

$p = 95\%$																	
m	n	1	2	3	4	5	6	7	8	9	10	15	20	30	40	50	100
1	161.447639	18.5128205	10.1279645	7.70864742	6.60789097	5.98737761	5.59144785	5.31765507	5.11735503	4.96460274	4.84307717	4.74531243	4.65124335	4.57087679	4.50474573	4.45030971	3.93614299
2	199.5	19.5520945	9.5520945	6.9427191	5.78613504	5.14325285	4.73741413	4.45897011	4.25649473	4.10282102	3.98232034	3.89282848	3.81826295	3.75158295	3.69177699	3.63820985	3.08729589
3	215.707345	19.1642921	9.27662815	6.59138212	5.40945132	4.75706266	4.3468314	4.06618055	3.86254836	3.70286482	3.5873821	3.52093121	3.46198114	3.409227719	3.36387454	3.323900841	2.6955425
4	220.883241	19.2467943	9.11718225	6.38823291	5.19216777	4.53367059	4.12031173	3.83785335	3.63308851	3.47804969	3.36286257	3.30598124	3.25566828	3.211971916	3.173591495	3.1398116	2.6626193
5	231.161878	19.2964097	9.07345517	6.25605651	5.06032906	4.38737419	3.97152315	3.68749687	3.48165865	3.3283453	3.20729454	3.15088994	3.10495455	3.06292319	3.024004913	2.98904913	2.30531824
6	233.986	19.329534	8.94064512	6.16313228	4.96028807	4.28386571	3.86598032	3.67375365	3.47171455	3.3159465	3.194065	3.137652319	3.09252319	3.0565243	3.02365524	2.99160994	2.2864359
7	236.7684	19.3532175	8.8674296	6.09421093	4.8758717	4.20665849	3.78704354	3.59046386	3.39274584	3.2354464	3.11354648	3.05682621	3.01303235	2.97616327	2.94107045	2.9072276	2.20332759
8	238.892695	19.3789929	8.84523846	6.04104448	4.81811954	4.16800414	3.75253232	3.56310123	3.35986261	3.20238295	3.0796988	3.02381411	2.98106968	2.94336136	2.9082276	2.8742922	2.17428292
9	240.543255	19.4048257	8.81229956	5.9987903	4.77246561	4.09901564	3.6766547	3.48813023	3.2788931	3.1213832	2.99722702	2.9417857	2.90471992	2.86937992	2.83516116	2.8014296	2.10489249
10	241.881747	19.3958967	8.7852471	5.96437055	4.73506307	4.05996279	3.63652312	3.34716312	3.13728011	2.97922702	2.85431865	2.79827992	2.76247857	2.72782992	2.6934296	2.6592496	2.06629249
15	245.949926	19.4291351	8.70287013	5.85780536	4.67875912	3.93805799	3.51074018	3.21840551	3.00610197	2.84501653	2.720327429	2.66454707	2.62852319	2.5932319	2.5582433	2.5234339	2.00251329
20	248.013082	19.4457685	8.6601898	5.80254189	4.5581315	3.87418858	3.44452483	3.15032377	2.93645539	2.7740164	2.64937501	2.5932319	2.5575348	2.5221262	2.4868335	2.4515433	1.93063425
30	250.095148	19.4624114	8.61657587	5.74587698	4.49571226	3.80816427	3.3758075	3.07940642	2.86365234	2.70478916	2.5790859	2.5227568	2.4868335	2.4515433	2.4162536	2.3809633	1.86003315
40	251.143153	19.4707364	8.59441125	5.71699841	4.46379332	3.77428628	3.34042965	3.04277782	2.82593265	2.66605521	2.54027568	2.4838191	2.44791012	2.41200179	2.3760933	2.3401848	1.81927132
50	251.774158	19.4757326	8.58096627	5.6994915	4.44404562	3.75366766	3.31885564	3.02039779	2.80284252	2.6371104	2.511798544	2.4552794	2.41937132	2.3834628	2.3475543	2.3116458	1.79073132
100	253.041071	19.4857275	8.55390171	5.66406407	4.40508082	3.71174536	3.27488466	2.97467449	2.75555668	2.58841218	2.46242845	2.40593716	2.36999442	2.3340517	2.2981090	2.2621663	1.74126132
$p = 99\%$																	
m	n	1	2	3	4	5	6	7	8	9	10	15	20	30	40	50	100
1	4052.1807	98.5025126	34.1162216	21.1976896	16.258177	13.7450225	12.2453833	11.2586241	10.561431	10.0442893	9.68311682	9.4161682	9.20595806	9.0449889	8.9207706	8.8434291	8.7900103
2	4999.5	99.30165204	30.8165204	18.132739336	13.2739336	10.9247665	9.54657802	8.64911064	8.0215731	7.5943216	7.35887348	7.2166348	7.12166348	7.0593192	7.011850824	6.97461087	6.94290981
3	5403.35201	99.1662014	29.4566951	16.6943692	12.0599537	9.77953824	8.45128505	7.50999195	6.99191722	6.55231256	6.31696486	6.17469631	6.1093338	6.0679356	6.0359321	6.0103345	5.99069531
4	5624.58333	99.2497319	28.7089884	15.9770249	11.3919281	9.14830103	7.84664506	7.00607662	6.42208546	5.99433866	5.75320959	5.6107884	5.5593935	5.5329351	5.5145419	5.5009441	5.4896406
5	5763.64955	99.2992965	28.2370808	15.5218575	10.9670207	8.74589526	7.46043549	6.63182516	6.0594071	5.63632619	5.39561398	5.2531398	5.2026943	5.1829355	5.1701777	5.1628177	5.1576845
6	5858.98611	99.3325889	27.9106574	15.2069649	10.6722548	8.46612534	7.19140479	6.37068073	5.80177031	5.38581104	5.14287305	4.9991429	4.9483421	4.9281239	4.9163421	4.9098421	4.9056845
7	5928.35573	99.3563737	27.6716961	14.9757577	10.4555109	8.25999527	6.99283278	6.17762426	5.60212125	5.1854531	4.9424531	4.7991429	4.7483421	4.7281239	4.7163421	4.7108421	4.7076845
8	5981.07031	99.3742148	27.4891777	14.7988888	10.289311	8.10165137	6.84004907	6.02887011	5.45772252	5.0424531	4.7991429	4.6558421	4.6050421	4.5858239	4.5740421	4.5685421	4.5653845
9	6022.47324	99.3880927	27.3452063	14.6591336	10.1577615	7.97612137	6.71875248	5.9061885	5.33512886	4.9242065	4.6817891	4.5384821	4.4876821	4.4684639	4.4566821	4.4511821	4.4480246
10	6055.84671	99.3991956	27.2287341	14.5459008	10.0510172	7.87411853	6.62006267	5.81429386	5.25654199	4.8491468	4.6063975	4.4630821	4.4122821	4.3930639	4.3812821	4.3757821	4.3726246
15	6157.28462	99.4325107	26.872195	14.1982019	9.72221947	7.55899442	6.31433088	5.51512484	4.96207836	4.5581396	4.3151968	4.1722821	4.1214821	4.1022639	4.0904821	4.0849821	4.0828246
20	6208.73022	99.4491708	26.6897905	14.0196087	9.55264616	7.39688189	6.15433839	5.35909494	4.80799523	4.40339477	4.1604531	4.0175383	3.9667383	3.9475196	3.9357383	3.9302383	3.9280746
30	6260.64858	99.4658329	26.5045337	13.8376603	9.37932921	7.22855306	5.99201017	5.19612955	4.64856167	4.24693262	3.9041018	3.7611821	3.7493639	3.7375452	3.7317383	3.7295746	3.7274109
40	6286.78205	99.4741646	26.4108127	13.7453789	9.2918878	7.1432219	5.90844856	5.1156104	4.56664872	4.1652869	3.8239052	3.6809863	3.6691676	3.6633605	3.6611821	3.6590184	3.6568547
50	6302.51719	99.4791638	26.3542251	13.6895798	9.23781079	7.09147513	5.85768204	5.06339774	4.51671482	4.1154174	3.7741747	3.6311952	3.6193765	3.6135694	3.6113909	3.6092272	3.6070635
100	6334.11004	99.4891628	26.2402417	13.5769915	9.12990713	6.98666691	5.7546573	4.96329583	4.41497995	4.01371942	3.6724156	3.5294373	3.5176186	3.5118109	3.5096472	3.5074835	3.5053198
$F_{m,n}(p) = 1/F_{n,m}(1-p)$																	