

Tablica 1: Kwantyle rzędu  $p$  rozkładu t-Studenta o  $v$  stopniach swobody

$p$	stopnie swobody $v$																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
0.84	1.819	1.312	1.189	1.134	1.104	1.084	1.070	1.060	1.053	1.046	1.041	1.037	1.034	1.031	1.029	1.026	1.024	1.023
0.841	1.833	1.319	1.195	1.140	1.109	1.089	1.075	1.065	1.057	1.051	1.046	1.042	1.038	1.035	1.033	1.031	1.029	1.027
0.842	1.846	1.326	1.201	1.145	1.114	1.094	1.080	1.070	1.062	1.056	1.051	1.046	1.043	1.040	1.037	1.035	1.033	1.031
0.843	1.860	1.333	1.207	1.151	1.119	1.099	1.085	1.074	1.066	1.060	1.055	1.051	1.047	1.044	1.042	1.040	1.038	1.036
0.844	1.874	1.341	1.213	1.156	1.124	1.104	1.090	1.079	1.071	1.065	1.060	1.055	1.052	1.049	1.046	1.044	1.042	1.040
0.845	1.889	1.348	1.219	1.162	1.129	1.109	1.094	1.084	1.076	1.069	1.064	1.060	1.056	1.053	1.051	1.048	1.046	1.045
0.846	1.903	1.356	1.225	1.167	1.135	1.114	1.099	1.089	1.081	1.074	1.069	1.065	1.061	1.058	1.055	1.053	1.051	1.049
0.847	1.918	1.363	1.231	1.173	1.140	1.119	1.104	1.094	1.085	1.079	1.074	1.069	1.066	1.062	1.060	1.057	1.055	1.054
0.848	1.932	1.371	1.237	1.178	1.145	1.124	1.109	1.098	1.090	1.084	1.078	1.074	1.070	1.067	1.064	1.062	1.060	1.058
0.849	1.947	1.378	1.244	1.184	1.150	1.129	1.114	1.103	1.095	1.088	1.083	1.079	1.075	1.072	1.069	1.067	1.064	1.063
0.85	1.963	1.386	1.250	1.190	1.156	1.134	1.119	1.108	1.100	1.093	1.088	1.083	1.079	1.076	1.074	1.071	1.069	1.067
0.851	1.978	1.394	1.256	1.195	1.161	1.139	1.124	1.113	1.105	1.098	1.092	1.088	1.084	1.081	1.078	1.076	1.074	1.072
0.852	1.993	1.402	1.262	1.201	1.167	1.145	1.129	1.118	1.109	1.103	1.097	1.093	1.089	1.086	1.083	1.080	1.078	1.076
0.853	2.009	1.410	1.269	1.207	1.172	1.150	1.134	1.123	1.114	1.108	1.102	1.097	1.094	1.090	1.087	1.085	1.083	1.081
0.854	2.025	1.418	1.275	1.213	1.177	1.155	1.139	1.128	1.119	1.112	1.107	1.102	1.098	1.095	1.092	1.090	1.087	1.086
0.855	2.041	1.426	1.282	1.218	1.183	1.160	1.145	1.133	1.124	1.117	1.112	1.107	1.103	1.100	1.097	1.094	1.092	1.090
0.856	2.058	1.434	1.288	1.224	1.189	1.166	1.150	1.138	1.129	1.122	1.117	1.112	1.108	1.104	1.102	1.099	1.097	1.095
0.857	2.074	1.442	1.295	1.230	1.194	1.171	1.155	1.143	1.134	1.127	1.121	1.117	1.113	1.109	1.106	1.104	1.102	1.100
0.858	2.091	1.450	1.302	1.236	1.200	1.176	1.160	1.148	1.139	1.132	1.126	1.122	1.118	1.114	1.111	1.109	1.106	1.104
0.859	2.108	1.459	1.308	1.242	1.205	1.182	1.165	1.154	1.144	1.137	1.131	1.126	1.122	1.119	1.116	1.113	1.111	1.109
0.86	2.125	1.467	1.315	1.248	1.211	1.187	1.171	1.159	1.149	1.142	1.136	1.131	1.127	1.124	1.121	1.118	1.116	1.114
0.861	2.143	1.476	1.322	1.254	1.217	1.193	1.176	1.164	1.155	1.147	1.141	1.136	1.132	1.129	1.126	1.123	1.121	1.119
0.862	2.160	1.484	1.329	1.261	1.222	1.198	1.181	1.169	1.160	1.152	1.146	1.141	1.137	1.134	1.131	1.128	1.126	1.123
0.863	2.178	1.493	1.335	1.267	1.228	1.204	1.187	1.174	1.165	1.157	1.151	1.146	1.142	1.139	1.135	1.133	1.130	1.128
0.864	2.196	1.502	1.342	1.273	1.234	1.209	1.192	1.180	1.170	1.163	1.156	1.151	1.147	1.144	1.140	1.138	1.135	1.133
0.865	2.215	1.511	1.349	1.279	1.240	1.215	1.198	1.185	1.175	1.168	1.162	1.156	1.152	1.149	1.145	1.143	1.140	1.138
0.866	2.233	1.519	1.356	1.285	1.246	1.221	1.203	1.190	1.181	1.173	1.167	1.162	1.157	1.154	1.150	1.148	1.145	1.143
0.867	2.252	1.528	1.364	1.292	1.252	1.226	1.209	1.196	1.186	1.178	1.172	1.167	1.162	1.159	1.155	1.153	1.150	1.148
0.868	2.272	1.538	1.371	1.298	1.258	1.232	1.214	1.201	1.191	1.183	1.177	1.172	1.167	1.164	1.160	1.158	1.155	1.153
0.869	2.291	1.547	1.378	1.305	1.264	1.238	1.220	1.207	1.197	1.189	1.182	1.177	1.173	1.169	1.166	1.163	1.160	1.158
0.87	2.311	1.556	1.385	1.311	1.270	1.244	1.226	1.212	1.202	1.194	1.188	1.182	1.178	1.174	1.171	1.168	1.165	1.163
0.871	2.331	1.565	1.393	1.318	1.276	1.250	1.231	1.218	1.208	1.199	1.193	1.188	1.183	1.179	1.176	1.173	1.170	1.168
0.872	2.351	1.575	1.400	1.324	1.282	1.255	1.237	1.223	1.213	1.205	1.198	1.193	1.188	1.184	1.181	1.178	1.175	1.173
0.873	2.372	1.584	1.407	1.331	1.288	1.261	1.243	1.229	1.219	1.210	1.204	1.198	1.193	1.190	1.186	1.183	1.181	1.178
0.874	2.393	1.594	1.415	1.338	1.295	1.267	1.248	1.235	1.224	1.216	1.209	1.203	1.199	1.195	1.191	1.188	1.186	1.184
0.875	2.414	1.604	1.423	1.344	1.301	1.273	1.254	1.240	1.230	1.221	1.214	1.209	1.204	1.200	1.197	1.194	1.191	1.189
0.876	2.436	1.613	1.430	1.351	1.307	1.279	1.260	1.246	1.235	1.227	1.220	1.214	1.210	1.205	1.202	1.199	1.196	1.194
0.877	2.458	1.623	1.438	1.358	1.314	1.286	1.266	1.252	1.241	1.232	1.225	1.220	1.215	1.211	1.207	1.204	1.202	1.199
0.878	2.480	1.633	1.446	1.365	1.320	1.292	1.272	1.258	1.247	1.238	1.231	1.225	1.220	1.216	1.213	1.210	1.207	1.204
0.879	2.503	1.643	1.454	1.372	1.327	1.298	1.278	1.263	1.252	1.244	1.237	1.231	1.226	1.222	1.218	1.215	1.212	1.210
0.88	2.526	1.654	1.462	1.379	1.333	1.304	1.284	1.269	1.258	1.249	1.242	1.236	1.231	1.227	1.224	1.220	1.218	1.215
0.881	2.549	1.664	1.470	1.386	1.340	1.310	1.290	1.275	1.264	1.255	1.248	1.242	1.237	1.233	1.229	1.226	1.223	1.221
0.882	2.573	1.675	1.478	1.393	1.346	1.317	1.296	1.281	1.270	1.261	1.254	1.248	1.242	1.238	1.235	1.231	1.228	1.226
0.883	2.597	1.685	1.486	1.400	1.353	1.323	1.302	1.287	1.276	1.267	1.259	1.253	1.248	1.244	1.240	1.237	1.234	1.231
0.884	2.621	1.696	1.494	1.408	1.360	1.329	1.309	1.293	1.282	1.272	1.265	1.259	1.254	1.249	1.246	1.242	1.239	1.237
0.885	2.646	1.707	1.502	1.415	1.367	1.336	1.315	1.299	1.288	1.278	1.271	1.265	1.259	1.255	1.251	1.248	1.245	1.242
0.886	2.672	1.718	1.511	1.422	1.373	1.342	1.321	1.306	1.294	1.284	1.277	1.270	1.265	1.261	1.257	1.254	1.251	1.248
0.887	2.698	1.729	1.519	1.430	1.380	1.349	1.327	1.312	1.300	1.290	1.283	1.276	1.271	1.267	1.263	1.259	1.256	1.254
0.888	2.724	1.740	1.528	1.437	1.387	1.356	1.334	1.318	1.306	1.296	1.289	1.282	1.277	1.272	1.268	1.265	1.262	1.259
0.889	2.750	1.751	1.537	1.445	1.394	1.362	1.340	1.324	1.312	1.302	1.295	1.288	1.283	1.278	1.274	1.271	1.268	1.265
0.89	2.778	1.763	1.545	1.453	1.401	1.369	1.347	1.331	1.318	1.308	1.301	1.294	1.289	1.284	1.280	1.276	1.273	1.271
0.891	2.805	1.774	1.554	1.460	1.409	1.376	1.353	1.337	1.324	1.315	1.307	1.300	1.295	1.290	1.286	1.282	1.279	1.277
0.892	2.833	1.786	1.563	1.468	1.416	1.383	1.360	1.343	1.331	1.321	1.313	1.306	1.301	1.296	1.292	1.288	1.285	1.282
0.893	2.862	1.798	1.572	1.476	1.423	1.390	1.367	1.350	1.337	1.327	1.319	1.312	1.307	1.302	1.298	1.294	1.291	1.288
0.894	2.891	1.810	1.581	1.484	1.430	1.397	1.373	1.356	1.344	1.333	1.325	1.318	1.313	1.308	1.304	1.300	1.297	1.294
0.895	2.921	1.822	1.590	1.492	1.438	1.404	1.380	1.363	1.350	1.340	1.331	1.325	1.319	1.314	1.310	1.306	1.303	1.300
0.896	2.951	1.835	1.600	1.500	1.445	1.411	1.387	1.370	1.356	1.346	1.338	1.331	1.325	1.320	1.316	1.312	1.309	1.306
0.897	2.982	1.847	1.609	1.508	1.453	1.418	1.394	1.376	1.363	1.353	1.344	1.337	1.331	1.326	1.322	1.318	1.315	1.312
0.898	3.013	1.860	1.618	1.516	1.460	1.425	1.401	1.383	1.370	1.359	1.350	1.343	1.337	1.332	1.328	1.324	1.321	1.318
0.899	3.045	1.873	1.628	1.525	1.468	1.432	1.408	1.390	1.376	1.366	1.357	1.350	1.344	1.339	1.334	1.331	1.327	1.324
0.9	3.078	1.886	1.638	1.533	1.476	1.440	1.415	1.397	1.383	1.372	1.363	1.356	1.350	1.345	1.341	1.337	1.333	1.330
0.901	3.111	1.899	1.648	1.542	1.484	1.447	1.422											

Tablica 1: Kwantyle rzędu  $p$  rozkładu t-Studenta o  $v$  stopniach swobody

$p$	stopnie swobody $v$																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
0.92	3.895	2.189	1.859	1.723	1.649	1.603	1.572	1.549	1.532	1.518	1.507	1.498	1.490	1.484	1.478	1.474	1.469	1.466
0.921	3.946	2.207	1.872	1.734	1.659	1.612	1.581	1.557	1.540	1.526	1.515	1.506	1.498	1.492	1.486	1.481	1.477	1.473
0.922	3.999	2.225	1.884	1.745	1.669	1.622	1.589	1.566	1.548	1.534	1.523	1.514	1.506	1.499	1.494	1.489	1.484	1.481
0.923	4.053	2.244	1.898	1.756	1.679	1.631	1.598	1.575	1.557	1.542	1.531	1.522	1.514	1.507	1.501	1.496	1.492	1.488
0.924	4.108	2.263	1.911	1.767	1.689	1.641	1.607	1.583	1.565	1.551	1.539	1.530	1.522	1.515	1.509	1.504	1.500	1.496
0.925	4.165	2.282	1.924	1.778	1.699	1.650	1.617	1.592	1.574	1.559	1.548	1.538	1.530	1.523	1.517	1.512	1.508	1.504
0.926	4.224	2.301	1.938	1.790	1.710	1.660	1.626	1.601	1.582	1.568	1.556	1.546	1.538	1.531	1.525	1.520	1.516	1.512
0.927	4.284	2.321	1.952	1.801	1.720	1.670	1.635	1.610	1.591	1.576	1.564	1.555	1.546	1.539	1.533	1.528	1.524	1.520
0.928	4.345	2.342	1.966	1.813	1.731	1.680	1.645	1.619	1.600	1.585	1.573	1.563	1.555	1.548	1.542	1.536	1.532	1.528
0.929	4.409	2.362	1.980	1.825	1.742	1.690	1.655	1.629	1.609	1.594	1.582	1.572	1.563	1.556	1.550	1.545	1.540	1.536
0.93	4.474	2.383	1.995	1.838	1.753	1.700	1.664	1.638	1.619	1.603	1.591	1.580	1.572	1.565	1.558	1.553	1.548	1.544
0.931	4.541	2.405	2.010	1.850	1.764	1.711	1.674	1.648	1.628	1.612	1.600	1.589	1.581	1.573	1.567	1.561	1.557	1.552
0.932	4.610	2.427	2.025	1.863	1.775	1.721	1.684	1.658	1.637	1.621	1.609	1.598	1.589	1.582	1.575	1.570	1.565	1.561
0.933	4.681	2.449	2.040	1.875	1.787	1.732	1.694	1.667	1.647	1.631	1.618	1.607	1.598	1.591	1.584	1.579	1.574	1.569
0.934	4.754	2.472	2.056	1.888	1.799	1.743	1.705	1.677	1.657	1.640	1.627	1.616	1.607	1.600	1.593	1.587	1.582	1.578
0.935	4.829	2.495	2.072	1.902	1.810	1.754	1.715	1.687	1.666	1.650	1.636	1.626	1.616	1.609	1.602	1.596	1.591	1.587
0.936	4.906	2.519	2.088	1.915	1.822	1.765	1.726	1.698	1.676	1.660	1.646	1.635	1.626	1.618	1.611	1.605	1.600	1.596
0.937	4.986	2.544	2.105	1.929	1.835	1.776	1.737	1.708	1.686	1.669	1.656	1.644	1.635	1.627	1.620	1.614	1.609	1.605
0.938	5.069	2.569	2.122	1.943	1.847	1.788	1.748	1.719	1.697	1.679	1.666	1.654	1.645	1.637	1.630	1.624	1.618	1.614
0.939	5.154	2.594	2.139	1.957	1.860	1.800	1.759	1.729	1.707	1.690	1.675	1.664	1.654	1.646	1.639	1.633	1.628	1.623
0.94	5.242	2.620	2.156	1.971	1.873	1.812	1.770	1.740	1.718	1.700	1.686	1.674	1.664	1.656	1.649	1.642	1.637	1.632
0.941	5.333	2.647	2.174	1.986	1.886	1.824	1.782	1.751	1.728	1.710	1.696	1.684	1.674	1.666	1.658	1.652	1.647	1.642
0.942	5.427	2.674	2.192	2.001	1.899	1.836	1.793	1.763	1.739	1.721	1.706	1.694	1.684	1.676	1.668	1.662	1.656	1.651
0.943	5.525	2.702	2.211	2.016	1.913	1.849	1.805	1.774	1.750	1.732	1.717	1.705	1.694	1.686	1.678	1.672	1.666	1.661
0.944	5.625	2.731	2.230	2.032	1.926	1.861	1.817	1.786	1.761	1.743	1.728	1.715	1.705	1.696	1.688	1.682	1.676	1.671
0.945	5.730	2.760	2.249	2.048	1.941	1.874	1.830	1.797	1.773	1.754	1.738	1.726	1.715	1.706	1.699	1.692	1.686	1.681
0.946	5.838	2.791	2.269	2.064	1.955	1.888	1.842	1.809	1.785	1.765	1.750	1.737	1.726	1.717	1.709	1.703	1.697	1.691
0.947	5.950	2.822	2.290	2.080	1.969	1.901	1.855	1.822	1.796	1.777	1.761	1.748	1.737	1.728	1.720	1.713	1.707	1.702
0.948	6.067	2.854	2.310	2.097	1.984	1.915	1.868	1.834	1.808	1.788	1.772	1.759	1.748	1.739	1.731	1.724	1.718	1.712
0.949	6.188	2.886	2.332	2.114	2.000	1.929	1.881	1.847	1.821	1.800	1.784	1.771	1.759	1.750	1.742	1.735	1.729	1.723
0.95	6.314	2.920	2.353	2.132	2.015	1.943	1.895	1.860	1.833	1.812	1.796	1.782	1.771	1.761	1.753	1.746	1.740	1.734
0.951	6.445	2.955	2.376	2.150	2.031	1.958	1.908	1.873	1.846	1.825	1.808	1.794	1.783	1.773	1.764	1.757	1.751	1.745
0.952	6.581	2.990	2.399	2.168	2.047	1.973	1.922	1.886	1.859	1.837	1.820	1.806	1.795	1.785	1.776	1.769	1.762	1.757
0.953	6.723	3.027	2.422	2.187	2.064	1.988	1.937	1.900	1.872	1.850	1.833	1.819	1.807	1.797	1.788	1.780	1.774	1.768
0.954	6.872	3.065	2.446	2.206	2.081	2.003	1.951	1.914	1.885	1.863	1.846	1.831	1.819	1.809	1.800	1.792	1.786	1.780
0.955	7.026	3.104	2.471	2.226	2.098	2.019	1.966	1.928	1.899	1.877	1.859	1.844	1.832	1.821	1.812	1.805	1.798	1.792
0.956	7.188	3.144	2.496	2.246	2.116	2.035	1.981	1.943	1.913	1.890	1.872	1.857	1.845	1.834	1.825	1.817	1.810	1.804
0.957	7.357	3.186	2.522	2.267	2.134	2.052	1.997	1.957	1.928	1.904	1.886	1.870	1.858	1.847	1.838	1.830	1.823	1.816
0.958	7.535	3.229	2.549	2.288	2.152	2.069	2.013	1.973	1.942	1.919	1.900	1.884	1.871	1.860	1.851	1.843	1.835	1.829
0.959	7.721	3.274	2.577	2.310	2.171	2.086	2.029	1.988	1.957	1.933	1.914	1.898	1.885	1.874	1.864	1.856	1.849	1.842
0.96	7.916	3.320	2.605	2.333	2.191	2.104	2.046	2.004	1.973	1.948	1.928	1.912	1.899	1.887	1.878	1.869	1.862	1.855
0.961	8.121	3.368	2.635	2.356	2.211	2.123	2.063	2.020	1.988	1.963	1.943	1.927	1.913	1.902	1.892	1.883	1.876	1.869
0.962	8.337	3.417	2.665	2.380	2.232	2.141	2.081	2.037	2.004	1.979	1.959	1.942	1.928	1.916	1.906	1.897	1.890	1.883
0.963	8.564	3.469	2.697	2.404	2.253	2.161	2.099	2.054	2.021	1.995	1.974	1.957	1.943	1.931	1.921	1.912	1.904	1.897
0.964	8.804	3.522	2.729	2.430	2.275	2.181	2.117	2.072	2.038	2.011	1.990	1.973	1.958	1.946	1.936	1.926	1.918	1.911
0.965	9.058	3.578	2.763	2.456	2.297	2.201	2.136	2.090	2.055	2.028	2.007	1.989	1.974	1.962	1.951	1.942	1.934	1.926
0.966	9.326	3.636	2.797	2.483	2.321	2.222	2.156	2.109	2.073	2.046	2.024	2.005	1.990	1.978	1.967	1.957	1.949	1.942
0.967	9.611	3.697	2.833	2.511	2.345	2.244	2.176	2.128	2.092	2.063	2.041	2.022	2.007	1.994	1.983	1.973	1.965	1.957
0.968	9.914	3.761	2.871	2.540	2.369	2.266	2.197	2.148	2.111	2.082	2.059	2.040	2.024	2.011	2.000	1.990	1.981	1.973
0.969	10.236	3.827	2.910	2.570	2.395	2.289	2.219	2.168	2.130	2.101	2.077	2.058	2.042	2.028	2.017	2.007	1.998	1.990
0.97	10.579	3.896	2.951	2.601	2.422	2.313	2.241	2.189	2.150	2.120	2.096	2.076	2.060	2.046	2.034	2.024	2.015	2.007
0.971	10.946	3.969	2.993	2.633	2.449	2.338	2.264	2.211	2.171	2.140	2.116	2.096	2.079	2.065	2.052	2.042	2.033	2.025
0.972	11.339	4.046	3.037	2.667	2.478	2.364	2.288	2.233	2.193	2.161	2.136	2.115	2.098	2.084	2.071	2.060	2.051	2.043
0.973	11.761	4.127	3.083	2.702	2.507	2.390	2.312	2.257	2.215	2.183	2.157	2.136	2.118	2.103	2.091	2.080	2.070	2.062
0.974	12.215	4.212	3.132	2.738	2.538	2.418	2.338	2.281	2.238	2.205	2.179	2.157	2.139	2.124	2.111	2.099	2.090	2.081
0.975	12.706	4.303	3.182	2.776	2.571	2.447	2.365	2.306	2.262	2.228	2.201	2.179	2.160	2.145	2.131	2.120	2.110	2.101
0.976	13.238	4.398	3.236	2.816	2.604	2.477	2.392	2.332	2.287	2.252	2.224	2.202	2.183	2.167	2.153	2.141	2.131	2.122
0.977	13.815	4.500	3.292	2.858	2.640	2.508	2.421	2.359	2.313	2.277	2.249	2.225	2.206	2.189	2.175	2.163	2.153	2.143
0.978	14.446	4.609	3.352	2.903	2.677	2.541	2.452	2.388	2.340	2.303	2.274	2.250	2.230	2.213	2.199	2.186	2.175	2.166
0.979	15.136	4.724	3.415	2.949	2.715	2.576	2.483	2.418	2.369	2.331	2.300	2.276	2.255	2.238	2.223	2.210	2.199	2.189
0.98	15.895	4.849	3.482	2.999	2.757	2.612	2.517	2.449	2.398	2.359	2.328	2.303	2.282	2.264	2.249	2.235	2.224	2.214
0.981	16.733	4.983	3.553	3.051	2.800	2.651	2											

Tablica 2: Kwantyle rzędu  $p$  rozkładu  $\chi^2$  o  $\nu$  stopniach swobody

$p$	stopnie swobody $\nu$															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
0.005	0.000	0.010	0.072	0.207	0.412	0.676	0.989	1.344	1.735	2.156	2.603	3.074	3.565	4.075	4.601	5.142
0.01	0.000	0.020	0.115	0.297	0.554	0.872	1.239	1.646	2.088	2.558	3.053	3.571	4.107	4.660	5.229	5.812
0.015	0.000	0.030	0.152	0.368	0.662	1.016	1.418	1.860	2.335	2.837	3.363	3.910	4.476	5.057	5.653	6.263
0.02	0.001	0.040	0.185	0.429	0.752	1.134	1.564	2.032	2.532	3.059	3.609	4.178	4.765	5.368	5.985	6.614
0.025	0.001	0.051	0.216	0.484	0.831	1.237	1.690	2.180	2.700	3.247	3.816	4.404	5.009	5.629	6.262	6.908
0.03	0.001	0.061	0.245	0.535	0.903	1.330	1.802	2.310	2.848	3.412	3.997	4.601	5.221	5.856	6.503	7.163
0.035	0.002	0.071	0.273	0.582	0.969	1.414	1.903	2.428	2.982	3.561	4.160	4.778	5.411	6.058	6.718	7.390
0.04	0.003	0.082	0.300	0.627	1.031	1.492	1.997	2.537	3.105	3.697	4.309	4.939	5.584	6.243	6.914	7.596
0.045	0.003	0.092	0.326	0.670	1.090	1.566	2.085	2.638	3.218	3.822	4.446	5.087	5.743	6.412	7.094	7.785
0.05	0.004	0.103	0.352	0.711	1.145	1.635	2.167	2.733	3.325	3.940	4.575	5.226	5.892	6.571	7.261	7.962
0.85	2.072	3.794	5.317	6.745	8.115	9.446	10.748	12.027	13.288	14.534	15.767	16.989	18.202	19.406	20.603	21.793
0.851	2.082	3.808	5.333	6.762	8.134	9.466	10.769	12.050	13.312	14.559	15.793	17.016	18.229	19.435	20.632	21.823
0.852	2.093	3.821	5.348	6.780	8.153	9.487	10.791	12.072	13.336	14.584	15.819	17.043	18.257	19.463	20.661	21.853
0.853	2.103	3.835	5.364	6.797	8.172	9.507	10.813	12.095	13.360	14.609	15.845	17.070	18.285	19.492	20.691	21.883
0.854	2.114	3.848	5.380	6.815	8.191	9.528	10.835	12.118	13.384	14.634	15.871	17.097	18.313	19.520	20.720	21.914
0.855	2.124	3.862	5.396	6.833	8.211	9.548	10.857	12.142	13.408	14.659	15.897	17.124	18.341	19.549	20.750	21.944
0.856	2.135	3.876	5.412	6.851	8.230	9.569	10.879	12.165	13.432	14.684	15.923	17.151	18.369	19.579	20.780	21.975
0.857	2.145	3.890	5.428	6.869	8.250	9.590	10.901	12.188	13.457	14.710	15.950	17.179	18.398	19.608	20.810	22.006
0.858	2.156	3.904	5.444	6.887	8.269	9.611	10.923	12.212	13.482	14.736	15.977	17.206	18.426	19.637	20.841	22.037
0.859	2.167	3.918	5.461	6.905	8.289	9.633	10.946	12.236	13.506	14.762	16.004	17.234	18.455	19.667	20.871	22.068
0.86	2.178	3.932	5.477	6.923	8.309	9.654	10.968	12.259	13.531	14.788	16.031	17.262	18.484	19.697	20.902	22.100
0.861	2.189	3.947	5.494	6.942	8.329	9.675	10.991	12.283	13.556	14.814	16.058	17.290	18.513	19.727	20.932	22.131
0.862	2.200	3.961	5.511	6.960	8.349	9.697	11.014	12.308	13.582	14.840	16.085	17.319	18.542	19.757	20.963	22.163
0.863	2.211	3.976	5.528	6.979	8.370	9.719	11.037	12.332	13.607	14.867	16.113	17.347	18.572	19.787	20.995	22.195
0.864	2.223	3.990	5.545	6.998	8.390	9.741	11.061	12.356	13.633	14.893	16.140	17.376	18.601	19.818	21.026	22.227
0.865	2.234	4.005	5.562	7.017	8.411	9.763	11.084	12.381	13.659	14.920	16.168	17.405	18.631	19.848	21.058	22.260
0.866	2.246	4.020	5.579	7.036	8.432	9.785	11.107	12.406	13.684	14.947	16.196	17.434	18.661	19.879	21.089	22.292
0.867	2.257	4.035	5.596	7.055	8.452	9.807	11.131	12.431	13.711	14.974	16.224	17.463	18.691	19.910	21.121	22.325
0.868	2.269	4.050	5.614	7.075	8.473	9.830	11.155	12.456	13.737	15.002	16.253	17.492	18.721	19.941	21.153	22.358
0.869	2.281	4.065	5.631	7.094	8.495	9.853	11.179	12.481	13.763	15.029	16.281	17.522	18.752	19.973	21.186	22.391
0.87	2.293	4.080	5.649	7.114	8.516	9.875	11.203	12.506	13.790	15.057	16.310	17.552	18.783	20.004	21.218	22.425
0.871	2.304	4.096	5.667	7.133	8.537	9.898	11.227	12.532	13.817	15.085	16.339	17.582	18.814	20.036	21.251	22.458
0.872	2.317	4.111	5.685	7.153	8.559	9.921	11.252	12.558	13.844	15.113	16.368	17.612	18.845	20.068	21.284	22.492
0.873	2.329	4.127	5.703	7.173	8.581	9.945	11.277	12.584	13.871	15.141	16.398	17.642	18.876	20.101	21.317	22.526
0.874	2.341	4.143	5.721	7.194	8.603	9.968	11.301	12.610	13.898	15.170	16.427	17.673	18.907	20.133	21.350	22.560
0.875	2.354	4.159	5.739	7.214	8.625	9.992	11.326	12.636	13.926	15.198	16.457	17.703	18.939	20.166	21.384	22.595
0.876	2.366	4.175	5.758	7.235	8.647	10.016	11.352	12.663	13.953	15.227	16.487	17.734	18.971	20.199	21.418	22.630
0.877	2.379	4.191	5.777	7.255	8.669	10.039	11.377	12.689	13.981	15.256	16.517	17.765	19.003	20.232	21.452	22.665
0.878	2.391	4.207	5.795	7.276	8.692	10.064	11.403	12.716	14.009	15.285	16.547	17.797	19.036	20.265	21.486	22.700
0.879	2.404	4.224	5.814	7.297	8.715	10.088	11.428	12.743	14.037	15.315	16.578	17.828	19.068	20.299	21.521	22.735
0.88	2.417	4.241	5.833	7.318	8.738	10.112	11.454	12.770	14.066	15.344	16.609	17.860	19.101	20.333	21.555	22.771
0.881	2.430	4.257	5.853	7.339	8.761	10.137	11.480	12.798	14.095	15.374	16.640	17.892	19.134	20.367	21.590	22.807
0.882	2.444	4.274	5.872	7.361	8.784	10.162	11.507	12.825	14.123	15.404	16.671	17.925	19.168	20.401	21.626	22.843
0.883	2.457	4.291	5.892	7.383	8.807	10.187	11.533	12.853	14.153	15.435	16.702	17.957	19.201	20.435	21.661	22.879
0.884	2.471	4.308	5.911	7.404	8.831	10.212	11.560	12.881	14.182	15.465	16.734	17.990	19.235	20.470	21.697	22.916
0.885	2.484	4.326	5.931	7.426	8.855	10.238	11.587	12.910	14.211	15.496	16.766	18.023	19.269	20.505	21.733	22.953
0.886	2.498	4.343	5.951	7.449	8.879	10.263	11.614	12.938	14.241	15.527	16.798	18.056	19.303	20.541	21.769	22.990
0.887	2.512	4.361	5.972	7.471	8.903	10.289	11.641	12.967	14.271	15.558	16.830	18.089	19.338	20.576	21.806	23.028
0.888	2.526	4.379	5.992	7.493	8.927	10.315	11.669	12.996	14.301	15.590	16.863	18.123	19.372	20.612	21.843	23.065
0.889	2.540	4.396	6.013	7.516	8.952	10.341	11.696	13.025	14.332	15.621	16.896	18.157	19.408	20.648	21.880	23.103
0.89	2.554	4.415	6.033	7.539	8.977	10.368	11.724	13.054	14.363	15.653	16.929	18.191	19.443	20.684	21.917	23.142
0.891	2.569	4.433	6.054	7.562	9.002	10.394	11.752	13.084	14.394	15.685	16.962	18.226	19.478	20.721	21.955	23.180
0.892	2.583	4.451	6.075	7.585	9.027	10.421	11.781	13.114	14.425	15.718	16.996	18.261	19.514	20.758	21.993	23.219
0.893	2.598	4.470	6.097	7.609	9.052	10.448	11.810	13.144	14.456	15.751	17.030	18.296	19.550	20.795	22.031	23.258
0.894	2.613	4.489	6.118	7.633	9.078	10.476	11.838	13.174	14.488	15.783	17.064	18.331	19.587	20.833	22.069	23.298
0.895	2.628	4.508	6.140	7.657	9.104	10.503	11.868	13.205	14.520	15.817	17.098	18.367	19.624	20.870	22.108	23.338
0.896	2.643	4.527	6.162	7.681	9.130	10.531	11.897	13.235	14.552	15.850	17.133	18.403	19.661	20.909	22.147	23.378
0.897	2.658	4.546	6.184	7.705	9.156	10.559	11.927	13.267	14.584	15.884	17.168	18.439	19.698	20.947	22.187	23.418
0.898	2.674	4.566	6.206	7.730	9.183	10.587	11.956	13.298	14.617	15.918	17.203	18.475	19.736	20.986	22.227	23.459
0.899	2.690	4.585	6.229	7.754	9.209	10.616	11.987	13.330	14.650	15.953	17.239	18.512	19.774	21.025	22.267	23.500
0.9	2.706	4.605	6.251	7.779	9.236	10.645	12.017	13.362	14.684	15.987	17.275	18.549	19.812	21.064	22.307	23.542
0.901	2.722	4.625	6.274	7.805	9.264	10.674	12.048	13.394	14.717	16.022	17.311	18.587	19.851	21.104	22.348	23.584
0.902	2.738	4.646	6.297	7.830	9.291	10.703	12.079	13.426	14.751	16.057	17.348	18.625	19.890	21.144	22.389	23.626
0.903	2.754	4.666	6.321	7.856	9.319	10.733	12.110	13.459	14.785	16.093	17.385	18.663	19.929	21.184	22.431	23.668
0.904	2.771	4.687	6.345	7.882	9.347	10.762	12.142	13.492	14.820	16.129	17.422	18.701	19.968	21.225	22.473	23.711
0.905	2.788	4.708	6.368	7.908</												

Tablica 2: Kwantyle rzędu  $p$  rozkładu  $\chi^2$  o  $v$  stopniach swobody

$p$	stopnie swobody $v$															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
0.92	3.065	5.051	6.759	8.337	9.837	11.283	12.691	14.068	15.421	16.753	18.069	19.369	20.657	21.933	23.199	24.456
0.921	3.085	5.077	6.787	8.368	9.870	11.319	12.729	14.108	15.462	16.796	18.113	19.415	20.704	21.981	23.249	24.507
0.922	3.106	5.102	6.816	8.399	9.904	11.355	12.767	14.148	15.504	16.839	18.157	19.461	20.751	22.030	23.299	24.558
0.923	3.127	5.128	6.845	8.431	9.938	11.392	12.805	14.188	15.546	16.883	18.202	19.507	20.799	22.079	23.349	24.610
0.924	3.148	5.154	6.875	8.464	9.973	11.429	12.844	14.229	15.588	16.927	18.248	19.554	20.848	22.129	23.400	24.663
0.925	3.170	5.181	6.905	8.496	10.008	11.466	12.883	14.270	15.631	16.971	18.294	19.602	20.897	22.180	23.452	24.716
0.926	3.192	5.207	6.935	8.529	10.044	11.504	12.923	14.311	15.674	17.016	18.341	19.650	20.946	22.231	23.504	24.769
0.927	3.214	5.235	6.966	8.563	10.080	11.542	12.964	14.354	15.718	17.062	18.388	19.699	20.996	22.282	23.557	24.823
0.928	3.237	5.262	6.997	8.597	10.117	11.581	13.004	14.396	15.763	17.108	18.436	19.748	21.047	22.334	23.611	24.878
0.929	3.260	5.290	7.028	8.631	10.154	11.620	13.046	14.440	15.808	17.155	18.484	19.798	21.099	22.387	23.665	24.934
0.93	3.283	5.319	7.060	8.666	10.191	11.660	13.088	14.484	15.854	17.203	18.533	19.849	21.151	22.441	23.720	24.990
0.931	3.307	5.347	7.093	8.702	10.229	11.700	13.130	14.528	15.900	17.251	18.583	19.900	21.203	22.495	23.776	25.047
0.932	3.331	5.376	7.126	8.738	10.268	11.741	13.173	14.573	15.947	17.299	18.633	19.952	21.257	22.550	23.832	25.105
0.933	3.355	5.406	7.159	8.774	10.307	11.783	13.217	14.619	15.994	17.348	18.684	20.005	21.311	22.605	23.889	25.163
0.934	3.380	5.436	7.193	8.811	10.346	11.825	13.261	14.665	16.042	17.398	18.736	20.058	21.366	22.662	23.947	25.222
0.935	3.405	5.467	7.227	8.848	10.386	11.867	13.306	14.712	16.091	17.449	18.788	20.112	21.421	22.719	24.006	25.282
0.936	3.431	5.498	7.262	8.886	10.427	11.910	13.351	14.759	16.141	17.500	18.841	20.167	21.478	22.777	24.065	25.343
0.937	3.457	5.529	7.297	8.925	10.468	11.954	13.397	14.807	16.191	17.552	18.895	20.222	21.535	22.835	24.125	25.405
0.938	3.483	5.561	7.333	8.964	10.510	11.999	13.444	14.856	16.242	17.605	18.950	20.278	21.593	22.895	24.186	25.467
0.939	3.510	5.594	7.370	9.004	10.553	12.044	13.492	14.906	16.293	17.659	19.005	20.335	21.652	22.955	24.248	25.531
0.94	3.537	5.627	7.407	9.044	10.596	12.090	13.540	14.956	16.346	17.713	19.061	20.393	21.711	23.017	24.311	25.595
0.941	3.565	5.660	7.445	9.085	10.640	12.136	13.589	15.007	16.399	17.768	19.118	20.452	21.772	23.079	24.375	25.660
0.942	3.594	5.695	7.483	9.127	10.685	12.183	13.638	15.059	16.453	17.824	19.176	20.512	21.833	23.142	24.439	25.727
0.943	3.623	5.729	7.522	9.169	10.730	12.231	13.689	15.112	16.508	17.881	19.235	20.573	21.896	23.206	24.505	25.794
0.944	3.652	5.765	7.561	9.213	10.776	12.280	13.740	15.166	16.564	17.939	19.295	20.634	21.959	23.271	24.572	25.862
0.945	3.682	5.801	7.602	9.256	10.823	12.330	13.792	15.220	16.621	17.998	19.356	20.697	22.023	23.337	24.639	25.931
0.946	3.713	5.838	7.643	9.301	10.871	12.380	13.845	15.276	16.678	18.058	19.417	20.760	22.089	23.404	24.708	26.002
0.947	3.744	5.875	7.685	9.346	10.919	12.432	13.899	15.332	16.737	18.118	19.480	20.825	22.155	23.473	24.778	26.074
0.948	3.776	5.913	7.727	9.393	10.969	12.484	13.954	15.389	16.796	18.180	19.544	20.891	22.223	23.542	24.850	26.147
0.949	3.808	5.952	7.771	9.440	11.019	12.537	14.010	15.448	16.857	18.243	19.609	20.958	22.292	23.613	24.922	26.221
0.95	3.841	5.991	7.815	9.488	11.070	12.592	14.067	15.507	16.919	18.307	19.675	21.026	22.362	23.685	24.996	26.296
0.951	3.875	6.032	7.860	9.537	11.123	12.647	14.125	15.568	16.982	18.372	19.742	21.095	22.433	23.758	25.071	26.373
0.952	3.910	6.073	7.906	9.586	11.176	12.703	14.184	15.630	17.046	18.439	19.811	21.166	22.506	23.833	25.147	26.451
0.953	3.945	6.115	7.953	9.637	11.230	12.761	14.244	15.692	17.111	18.506	19.881	21.238	22.580	23.909	25.225	26.531
0.954	3.982	6.158	8.001	9.689	11.286	12.819	14.306	15.757	17.178	18.575	19.952	21.312	22.656	23.986	25.305	26.612
0.955	4.019	6.202	8.049	9.742	11.342	12.879	14.369	15.822	17.246	18.646	20.025	21.386	22.733	24.065	25.385	26.695
0.956	4.057	6.247	8.099	9.796	11.400	12.940	14.433	15.889	17.315	18.718	20.099	21.463	22.811	24.146	25.468	26.779
0.957	4.095	6.293	8.151	9.852	11.459	13.002	14.498	15.957	17.386	18.791	20.175	21.541	22.891	24.228	25.552	26.866
0.958	4.135	6.340	8.203	9.908	11.519	13.066	14.565	16.027	17.459	18.866	20.252	21.620	22.973	24.312	25.638	26.954
0.959	4.176	6.388	8.256	9.966	11.581	13.131	14.633	16.098	17.533	18.942	20.331	21.702	23.057	24.398	25.726	27.044
0.96	4.218	6.438	8.311	10.026	11.644	13.198	14.703	16.171	17.608	19.021	20.412	21.785	23.142	24.485	25.816	27.136
0.961	4.261	6.488	8.367	10.086	11.709	13.266	14.775	16.245	17.686	19.101	20.495	21.870	23.230	24.575	25.908	27.230
0.962	4.305	6.540	8.425	10.148	11.775	13.336	14.848	16.322	17.765	19.183	20.579	21.957	23.319	24.667	26.002	27.326
0.963	4.350	6.594	8.484	10.212	11.843	13.408	14.923	16.400	17.846	19.267	20.666	22.047	23.411	24.761	26.099	27.424
0.964	4.397	6.648	8.545	10.278	11.913	13.481	15.000	16.480	17.930	19.353	20.755	22.138	23.505	24.858	26.197	27.525
0.965	4.445	6.705	8.607	10.345	11.985	13.557	15.079	16.563	18.015	19.442	20.846	22.232	23.601	24.956	26.298	27.629
0.966	4.495	6.763	8.671	10.414	12.058	13.634	15.160	16.647	18.103	19.532	20.940	22.328	23.700	25.058	26.402	27.735
0.967	4.546	6.822	8.737	10.485	12.134	13.714	15.244	16.734	18.193	19.626	21.036	22.427	23.802	25.162	26.509	27.844
0.968	4.598	6.884	8.805	10.559	12.212	13.796	15.330	16.824	18.286	19.721	21.135	22.529	23.907	25.269	26.619	27.956
0.969	4.653	6.948	8.875	10.634	12.292	13.880	15.418	16.916	18.381	19.820	21.237	22.634	24.014	25.380	26.732	28.072
0.97	4.709	7.013	8.947	10.712	12.375	13.968	15.509	17.010	18.480	19.922	21.342	22.742	24.125	25.493	26.848	28.191
0.971	4.768	7.081	9.022	10.792	12.460	14.058	15.603	17.108	18.581	20.027	21.450	22.853	24.239	25.610	26.968	28.313
0.972	4.828	7.151	9.099	10.875	12.548	14.150	15.700	17.210	18.686	20.135	21.561	22.968	24.357	25.731	27.091	28.440
0.973	4.891	7.224	9.179	10.962	12.640	14.247	15.801	17.314	18.794	20.247	21.677	23.087	24.479	25.856	27.219	28.570
0.974	4.956	7.299	9.262	11.051	12.734	14.346	15.905	17.422	18.906	20.363	21.796	23.209	24.605	25.985	27.351	28.705
0.975	5.024	7.378	9.348	11.143	12.833	14.449	16.013	17.535	19.023	20.483	21.920	23.337	24.736	26.119	27.488	28.845
0.976	5.095	7.459	9.438	11.240	12.935	14.557	16.125	17.651	19.144	20.608	22.049	23.469	24.871	26.258	27.630	28.991
0.977	5.169	7.545	9.531	11.340	13.041	14.668	16.241	17.772	19.269	20.738	22.182	23.606	25.012	26.402	27.778	29.141
0.978	5.246	7.633	9.629	11.444	13.151	14.785	16.363	17.899	19.400	20.873	22.321	23.749	25.159	26.552	27.932	29.298
0.979	5.327	7.726	9.731	11.553	13.267	14.906	16.490	18.030	19.536	21.013	22.466	23.898	25.312	26.709	28.092	29.462
0.98	5.412	7.824	9.837	11.668	13.388	15.033	16.622	18.168	19.679	21.161	22.618	24.054	25.472	26.873	28.259	29.633
0.981	5.502	7.927	9.950	11.788	13.515	15.167	16.762	18.313	19.829	21.315	22.777	24.217	25.639	27.044	28.435	29.812
0.982	5.596	8.035	10.068	11.914	13.649	15.307	16.908	18.465	19.986	21.477	22.944	24.389	25.815	27.224	28.619	30.000
0.983	5.696	8.149	10.192	12.048	13.790	15.455	17.062	18.625	20.152	21.648	23.120	24.569	26.000	27.414	28.813	30.198
0.984	5.803															

Tablica 3: Wartość  $\Phi(x)$  dystrybuanty rozkładu normalnego  $\mathcal{N}(0, 1)$

$x$	części setne									
	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.0	0.5000	0.5040	0.5080	0.5120	0.5160	0.5199	0.5239	0.5279	0.5319	0.5359
0.1	0.5398	0.5438	0.5478	0.5517	0.5557	0.5596	0.5636	0.5675	0.5714	0.5753
0.2	0.5793	0.5832	0.5871	0.5910	0.5948	0.5987	0.6026	0.6064	0.6103	0.6141
0.3	0.6179	0.6217	0.6255	0.6293	0.6331	0.6368	0.6406	0.6443	0.6480	0.6517
0.4	0.6554	0.6591	0.6628	0.6664	0.6700	0.6736	0.6772	0.6808	0.6844	0.6879
0.5	0.6915	0.6950	0.6985	0.7019	0.7054	0.7088	0.7123	0.7157	0.7190	0.7224
0.6	0.7257	0.7291	0.7324	0.7357	0.7389	0.7422	0.7454	0.7486	0.7517	0.7549
0.7	0.7580	0.7611	0.7642	0.7673	0.7704	0.7734	0.7764	0.7794	0.7823	0.7852
0.8	0.7881	0.7910	0.7939	0.7967	0.7995	0.8023	0.8051	0.8078	0.8106	0.8133
0.9	0.8159	0.8186	0.8212	0.8238	0.8264	0.8289	0.8315	0.8340	0.8365	0.8389
1.0	0.8413	0.8438	0.8461	0.8485	0.8508	0.8531	0.8554	0.8577	0.8599	0.8621
1.1	0.8643	0.8665	0.8686	0.8708	0.8729	0.8749	0.8770	0.8790	0.8810	0.8830
1.2	0.8849	0.8869	0.8888	0.8907	0.8925	0.8944	0.8962	0.8980	0.8997	0.9015
1.3	0.9032	0.9049	0.9066	0.9082	0.9099	0.9115	0.9131	0.9147	0.9162	0.9177
1.4	0.9192	0.9207	0.9222	0.9236	0.9251	0.9265	0.9279	0.9292	0.9306	0.9319
1.5	0.9332	0.9345	0.9357	0.9370	0.9382	0.9394	0.9406	0.9418	0.9429	0.9441
1.6	0.9452	0.9463	0.9474	0.9484	0.9495	0.9505	0.9515	0.9525	0.9535	0.9545
1.7	0.9554	0.9564	0.9573	0.9582	0.9591	0.9599	0.9608	0.9616	0.9625	0.9633
1.8	0.9641	0.9649	0.9656	0.9664	0.9671	0.9678	0.9686	0.9693	0.9699	0.9706
1.9	0.9713	0.9719	0.9726	0.9732	0.9738	0.9744	0.9750	0.9756	0.9761	0.9767
2.0	0.9772	0.9778	0.9783	0.9788	0.9793	0.9798	0.9803	0.9808	0.9812	0.9817
2.1	0.9821	0.9826	0.9830	0.9834	0.9838	0.9842	0.9846	0.9850	0.9854	0.9857
2.2	0.9861	0.9864	0.9868	0.9871	0.9875	0.9878	0.9881	0.9884	0.9887	0.9890
2.3	0.9893	0.9896	0.9898	0.9901	0.9904	0.9906	0.9909	0.9911	0.9913	0.9916
2.4	0.9918	0.9920	0.9922	0.9925	0.9927	0.9929	0.9931	0.9932	0.9934	0.9936
2.5	0.9938	0.9940	0.9941	0.9943	0.9945	0.9946	0.9948	0.9949	0.9951	0.9952
2.6	0.9953	0.9955	0.9956	0.9957	0.9959	0.9960	0.9961	0.9962	0.9963	0.9964
2.7	0.9965	0.9966	0.9967	0.9968	0.9969	0.9970	0.9971	0.9972	0.9973	0.9974
2.8	0.9974	0.9975	0.9976	0.9977	0.9977	0.9978	0.9979	0.9979	0.9980	0.9981
2.9	0.9981	0.9982	0.9982	0.9983	0.9984	0.9984	0.9985	0.9985	0.9986	0.9986