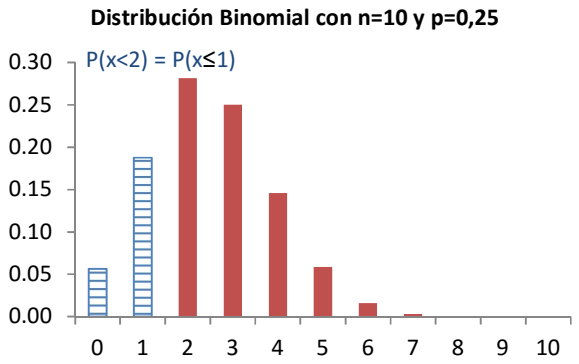
Tabla de Distribución Binomial

Función de Distribución Acumulada

Curso de Estadística de Tamara Burdisso. FCE - UBA



n	p / x	0.01	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.49	0.50
2	0	0.9801	0.9025	0.8100	0.7225	0.6400	0.5625	0.4900	0.4225	0.3600	0.3025	0.2601	0.2500
	1	0.9999	0.9975	0.9900	0.9775	0.9600	0.9375	0.9100	0.8775	0.8400	0.7975	0.7599	0.7500
	2	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
3	0	0.9703	0.8574	0.7290	0.6141	0.5120	0.4219	0.3430	0.2746	0.2160	0.1664	0.1327	0.1250
	1	0.9997	0.9928	0.9720	0.9393	0.8960	0.8438	0.7840	0.7183	0.6480	0.5748	0.5150	0.5000
	2	1.0000	0.9999	0.9990	0.9966	0.9920	0.9844	0.9730	0.9571	0.9360	0.9089	0.8824	0.8750
	3		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
4	0	0.9606	0.8145	0.6561	0.5220	0.4096	0.3164	0.2401	0.1785	0.1296	0.0915	0.0677	0.0625
	1	0.9994	0.9860	0.9477	0.8905	0.8192	0.7383	0.6517	0.5630	0.4752	0.3910	0.3276	0.3125
	2	1.0000	0.9995	0.9963	0.9880	0.9728	0.9492	0.9163	0.8735	0.8208	0.7585	0.7023	0.6875
	3		1.0000	0.9999	0.9995	0.9984	0.9961	0.9919	0.9850	0.9744	0.9590	0.9424	0.9375
	4			1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
5	0	0.9510	0.7738	0.5905	0.4437	0.3277	0.2373	0.1681	0.1160	0.0778	0.0503	0.0345	0.0313
	1	0.9990	0.9774	0.9185	0.8352	0.7373	0.6328	0.5282	0.4284	0.3370	0.2562	0.2002	0.1875
	2	1.0000	0.9988	0.9914	0.9734	0.9421	0.8965	0.8369	0.7648	0.6826	0.5931	0.5187	0.5000
	3		1.0000	0.9995	0.9978	0.9933	0.9844	0.9692	0.9460	0.9130	0.8688	0.8248	0.8125
	4			1.0000	0.9999	0.9997	0.9990	0.9976	0.9947	0.9898	0.9815	0.9718	0.9688
	5				1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
6	0	0.9415	0.7351	0.5314	0.3771	0.2621	0.1780	0.1176	0.0754	0.0467	0.0277	0.0176	0.0156
	1	0.9985	0.9672	0.8857	0.7765	0.6554	0.5339	0.4202	0.3191	0.2333	0.1636	0.1190	0.1094
	2	1.0000	0.9978	0.9842	0.9527	0.9011	0.8306	0.7443	0.6471	0.5443	0.4415	0.3627	0.3438
	3		0.9999	0.9987	0.9941	0.9830	0.9624	0.9295	0.8826	0.8208	0.7447	0.6748	0.6563
	4		1.0000	0.9999	0.9996	0.9984	0.9954	0.9891	0.9777	0.9590	0.9308	0.8997	0.8906
	5			1.0000	1.0000	0.9999	0.9998	0.9993	0.9982	0.9959	0.9917	0.9862	0.9844
	6					1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
7	0	0.9321	0.6983	0.4783	0.3206	0.2097	0.1335	0.0824	0.0490	0.0280	0.0152	0.0090	0.0078
	1	0.9980	0.9556	0.8503	0.7166	0.5767	0.4449	0.3294	0.2338	0.1586	0.1024	0.0693	0.0625
	2	1.0000	0.9962	0.9743	0.9262	0.8520	0.7564	0.6471	0.5323	0.4199	0.3164	0.2433	0.2266
	3		0.9998	0.9973	0.9879	0.9667	0.9294	0.8740	0.8002	0.7102	0.6083	0.5219	0.5000
	4		1.0000	0.9998	0.9988	0.9953	0.9871	0.9712	0.9444	0.9037	0.8471	0.7895	0.7734
	5			1.0000	0.9999	0.9996	0.9987	0.9962	0.9910	0.9812	0.9643	0.9438	0.9375
	6				1.0000	1.0000	0.9999	0.9998	0.9994	0.9984	0.9963	0.9932	0.9922
	7						1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

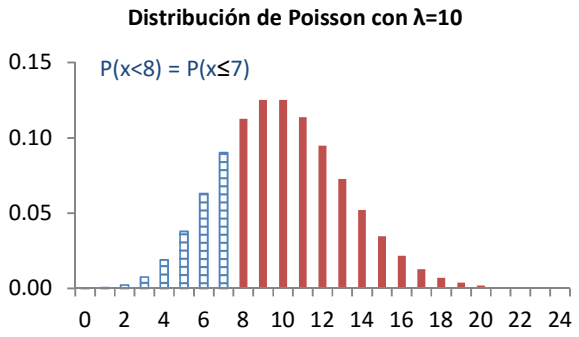
n	p / x	0.01	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.49	0.50
8	0	0.9227	0.6634	0.4305	0.2725	0.1678	0.1001	0.0576	0.0319	0.0168	0.0084	0.0046	0.0039
	1	0.9973	0.9428	0.8131	0.6572	0.5033	0.3671	0.2553	0.1691	0.1064	0.0632	0.0398	0.0352
	2	0.9999	0.9942	0.9619	0.8948	0.7969	0.6785	0.5518	0.4278	0.3154	0.2201	0.1581	0.1445
	3	1.0000	0.9996	0.9950	0.9786	0.9437	0.8862	0.8059	0.7064	0.5941	0.4770	0.3854	0.3633
	4		1.0000	0.9996	0.9971	0.9896	0.9727	0.9420	0.8939	0.8263	0.7396	0.6584	0.6367
	5			1.0000	0.9998	0.9988	0.9958	0.9887	0.9747	0.9502	0.9115	0.8682	0.8555
	6				1.0000	0.9999	0.9996	0.9987	0.9964	0.9915	0.9819	0.9690	0.9648
	7					1.0000	1.0000	0.9999	0.9998	0.9993	0.9983	0.9967	0.9961
	8							1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
9	0	0.9135	0.6302	0.3874	0.2316	0.1342	0.0751	0.0404	0.0207	0.0101	0.0046	0.0023	0.0020
	1	0.9966	0.9288	0.7748	0.5995	0.4362	0.3003	0.1960	0.1211	0.0705	0.0385	0.0225	0.0195
	2	0.9999	0.9916	0.9470	0.8591	0.7382	0.6007	0.4628	0.3373	0.2318	0.1495	0.1001	0.0898
	3	1.0000	0.9994	0.9917	0.9661	0.9144	0.8343	0.7297	0.6089	0.4826	0.3614	0.2740	0.2539
	4		1.0000	0.9991	0.9944	0.9804	0.9511	0.9012	0.8283	0.7334	0.6214	0.5246	0.5000
	5			0.9999	0.9994	0.9969	0.9900	0.9747	0.9464	0.9006	0.8342	0.7654	0.7461
	6			1.0000	1.0000	0.9997	0.9987	0.9957	0.9888	0.9750	0.9502	0.9196	0.9102
	7					1.0000	0.9999	0.9996	0.9986	0.9962	0.9909	0.9831	0.9805
	8						1.0000	1.0000	0.9999	0.9997	0.9992	0.9984	0.9980
	9								1.0000	1.0000	1.0000	1.0000	1.0000
10	0	0.9044	0.5987	0.3487	0.1969	0.1074	0.0563	0.0282	0.0135	0.0060	0.0025	0.0012	0.0010
	1	0.9957	0.9139	0.7361	0.5443	0.3758	0.2440	0.1493	0.0860	0.0464	0.0233	0.0126	0.0107
	2	0.9999	0.9885	0.9298	0.8202	0.6778	0.5256	0.3828	0.2616	0.1673	0.0996	0.0621	0.0547
	3	1.0000	0.9990	0.9872	0.9500	0.8791	0.7759	0.6496	0.5138	0.3823	0.2660	0.1888	0.1719
	4		0.9999	0.9984	0.9901	0.9672	0.9219	0.8497	0.7515	0.6331	0.5044	0.4018	0.3770
	5		1.0000	0.9999	0.9986	0.9936	0.9803	0.9527	0.9051	0.8338	0.7384	0.6474	0.6230
	6			1.0000	0.9999	0.9991	0.9965	0.9894	0.9740	0.9452	0.8980	0.8440	0.8281
	7				1.0000	0.9999	0.9996	0.9984	0.9952	0.9877	0.9726	0.9520	0.9453
	8					1.0000	1.0000	0.9999	0.9995	0.9983	0.9955	0.9909	0.9893
	9							1.0000	1.0000	0.9999	0.9997	0.9992	0.9990
	10									1.0000	1.0000	1.0000	1.0000
11	0	0.8953	0.5688	0.3138	0.1673	0.0859	0.0422	0.0198	0.0088	0.0036	0.0014	0.0006	0.0005
	1	0.9948	0.8981	0.6974	0.4922	0.3221	0.1971	0.1130	0.0606	0.0302	0.0139	0.0070	0.0059
	2	0.9998	0.9848	0.9104	0.7788	0.6174	0.4552	0.3127	0.2001	0.1189	0.0652	0.0378	0.0327
	3	1.0000	0.9984	0.9815	0.9306	0.8389	0.7133	0.5696	0.4256	0.2963	0.1911	0.1267	0.1133
	4		0.9999	0.9972	0.9841	0.9496	0.8854	0.7897	0.6683	0.5328	0.3971	0.2974	0.2744
	5		1.0000	0.9997	0.9973	0.9883	0.9657	0.9218	0.8513	0.7535	0.6331	0.5271	0.5000
	6			1.0000	0.9997	0.9980	0.9924	0.9784	0.9499	0.9006	0.8262	0.7477	0.7256
	7				1.0000	0.9998	0.9988	0.9957	0.9878	0.9707	0.9390	0.8991	0.8867
	8					1.0000	0.9999	0.9994	0.9980	0.9941	0.9852	0.9718	0.9673
	9						1.0000	1.0000	0.9998	0.9993	0.9978	0.9951	0.9941
	10								1.0000	1.0000	0.9998	0.9996	0.9995
	11										1.0000	1.0000	1.0000

n	p / x	0.01	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.49	0.50
12	0	0.8864	0.5404	0.2824	0.1422	0.0687	0.0317	0.0138	0.0057	0.0022	0.0008	0.0003	0.0002
	1	0.9938	0.8816	0.6590	0.4435	0.2749	0.1584	0.0850	0.0424	0.0196	0.0083	0.0039	0.0032
	2	0.9998	0.9804	0.8891	0.7358	0.5583	0.3907	0.2528	0.1513	0.0834	0.0421	0.0227	0.0193
	3	1.0000	0.9978	0.9744	0.9078	0.7946	0.6488	0.4925	0.3467	0.2253	0.1345	0.0832	0.0730
	4		0.9998	0.9957	0.9761	0.9274	0.8424	0.7237	0.5833	0.4382	0.3044	0.2138	0.1938
	5		1.0000	0.9995	0.9954	0.9806	0.9456	0.8822	0.7873	0.6652	0.5269	0.4145	0.3872
	6			0.9999	0.9993	0.9961	0.9857	0.9614	0.9154	0.8418	0.7393	0.6396	0.6128
	7			1.0000	0.9999	0.9994	0.9972	0.9905	0.9745	0.9427	0.8883	0.8249	0.8062
	8				1.0000	0.9999	0.9996	0.9983	0.9944	0.9847	0.9644	0.9362	0.9270
	9					1.0000	1.0000	0.9998	0.9992	0.9972	0.9921	0.9837	0.9807
	10							1.0000	0.9999	0.9997	0.9989	0.9974	0.9968
	11								1.0000	1.0000	0.9999	0.9998	0.9998
	12										1.0000	1.0000	1.0000
13	0	0.8775	0.5133	0.2542	0.1209	0.0550	0.0238	0.0097	0.0037	0.0013	0.0004	0.0002	0.0001
	1	0.9928	0.8646	0.6213	0.3983	0.2336	0.1267	0.0637	0.0296	0.0126	0.0049	0.0021	0.0017
	2	0.9997	0.9755	0.8661	0.6920	0.5017	0.3326	0.2025	0.1132	0.0579	0.0269	0.0135	0.0112
	3	1.0000	0.9969	0.9658	0.8820	0.7473	0.5843	0.4206	0.2783	0.1686	0.0929	0.0536	0.0461
	4		0.9997	0.9935	0.9658	0.9009	0.7940	0.6543	0.5005	0.3530	0.2279	0.1498	0.1334
	5		1.0000	0.9991	0.9925	0.9700	0.9198	0.8346	0.7159	0.5744	0.4268	0.3162	0.2905
	6			0.9999	0.9987	0.9930	0.9757	0.9376	0.8705	0.7712	0.6437	0.5293	0.5000
	7			1.0000	0.9998	0.9988	0.9944	0.9818	0.9538	0.9023	0.8212	0.7341	0.7095
	8				1.0000	0.9998	0.9990	0.9960	0.9874	0.9679	0.9302	0.8817	0.8666
	9					1.0000	0.9999	0.9993	0.9975	0.9922	0.9797	0.9604	0.9539
	10						1.0000	0.9999	0.9997	0.9987	0.9959	0.9907	0.9888
	11							1.0000	1.0000	0.9999	0.9995	0.9986	0.9983
	12									1.0000	1.0000	0.9999	0.9999
	13											1.0000	1.0000
14	0	0.8687	0.4877	0.2288	0.1028	0.0440	0.0178	0.0068	0.0024	0.0008	0.0002	0.0001	0.0001
	1	0.9916	0.8470	0.5846	0.3567	0.1979	0.1010	0.0475	0.0205	0.0081	0.0029	0.0012	0.0009
	2	0.9997	0.9699	0.8416	0.6479	0.4481	0.2811	0.1608	0.0839	0.0398	0.0170	0.0079	0.0065
	3	1.0000	0.9958	0.9559	0.8535	0.6982	0.5213	0.3552	0.2205	0.1243	0.0632	0.0339	0.0287
	4		0.9996	0.9908	0.9533	0.8702	0.7415	0.5842	0.4227	0.2793	0.1672	0.1026	0.0898
	5		1.0000	0.9985	0.9885	0.9561	0.8883	0.7805	0.6405	0.4859	0.3373	0.2346	0.2120
	6			0.9998	0.9978	0.9884	0.9617	0.9067	0.8164	0.6925	0.5461	0.4249	0.3953
	7			1.0000	0.9997	0.9976	0.9897	0.9685	0.9247	0.8499	0.7414	0.6337	0.6047
	8				1.0000	0.9996	0.9978	0.9917	0.9757	0.9417	0.8811	0.8094	0.7880
	9					1.0000	0.9997	0.9983	0.9940	0.9825	0.9574	0.9218	0.9102
	10						1.0000	0.9998	0.9989	0.9961	0.9886	0.9759	0.9713
	11							1.0000	0.9999	0.9994	0.9978	0.9947	0.9935
	12								1.0000	0.9999	0.9997	0.9993	0.9991
	13									1.0000	1.0000	1.0000	0.9999
	14												1.0000

Tabla de Distribución de Poisson

Función de Distribución Acumulada

Curso de Estadística de Tamara Burdisso. FCE - UBA



λ=μ x	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	1.50	2.00
0	0.9048	0.8187	0.7408	0.6703	0.6065	0.5488	0.4966	0.4493	0.4066	0.3679	0.2231	0.1353
1	0.9953	0.9825	0.9631	0.9384	0.9098	0.8781	0.8442	0.8088	0.7725	0.7358	0.5578	0.4060
2	0.9998	0.9989	0.9964	0.9921	0.9856	0.9769	0.9659	0.9526	0.9371	0.9197	0.8088	0.6767
3	1.0000	0.9999	0.9997	0.9992	0.9982	0.9966	0.9942	0.9909	0.9865	0.9810	0.9344	0.8571
4		1.0000	1.0000	0.9999	0.9998	0.9996	0.9992	0.9986	0.9977	0.9963	0.9814	0.9473
5				1.0000	1.0000	1.0000	0.9999	0.9998	0.9997	0.9994	0.9955	0.9834
6							1.0000	1.0000	1.0000	0.9999	0.9991	0.9955
7										1.0000	0.9998	0.9989
8											1.0000	0.9998
9												1.0000

λ=μ x	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8
0	0.0821	0.0498	0.0302	0.0183	0.0111	0.0067	0.0041	0.0025	0.0015	0.0009	0.0006	0.0003
1	0.2873	0.1991	0.1359	0.0916	0.0611	0.0404	0.0266	0.0174	0.0113	0.0073	0.0047	0.0030
2	0.5438	0.4232	0.3208	0.2381	0.1736	0.1247	0.0884	0.0620	0.0430	0.0296	0.0203	0.0138
3	0.7576	0.6472	0.5366	0.4335	0.3423	0.2650	0.2017	0.1512	0.1118	0.0818	0.0591	0.0424
4	0.8912	0.8153	0.7254	0.6288	0.5321	0.4405	0.3575	0.2851	0.2237	0.1730	0.1321	0.0996
5	0.9580	0.9161	0.8576	0.7851	0.7029	0.6160	0.5289	0.4457	0.3690	0.3007	0.2414	0.1912
6	0.9858	0.9665	0.9347	0.8893	0.8311	0.7622	0.6860	0.6063	0.5265	0.4497	0.3782	0.3134
7	0.9958	0.9881	0.9733	0.9489	0.9134	0.8666	0.8095	0.7440	0.6728	0.5987	0.5246	0.4530
8	0.9989	0.9962	0.9901	0.9786	0.9597	0.9319	0.8944	0.8472	0.7916	0.7291	0.6620	0.5925
9	0.9997	0.9989	0.9967	0.9919	0.9829	0.9682	0.9462	0.9161	0.8774	0.8305	0.7764	0.7166
10	0.9999	0.9997	0.9990	0.9972	0.9933	0.9863	0.9747	0.9574	0.9332	0.9015	0.8622	0.8159
11	1.0000	0.9999	0.9997	0.9991	0.9976	0.9945	0.9890	0.9799	0.9661	0.9467	0.9208	0.8881
12		1.0000	0.9999	0.9997	0.9992	0.9980	0.9955	0.9912	0.9840	0.9730	0.9573	0.9362
13			1.0000	0.9999	0.9997	0.9993	0.9983	0.9964	0.9929	0.9872	0.9784	0.9658
14				1.0000	0.9999	0.9998	0.9994	0.9986	0.9970	0.9943	0.9897	0.9827
15					1.0000	0.9999	0.9998	0.9995	0.9988	0.9976	0.9954	0.9918
16						1.0000	0.9999	0.9998	0.9996	0.9990	0.9980	0.9963
17							1.0000	0.9999	0.9998	0.9996	0.9992	0.9984
18								1.0000	0.9999	0.9999	0.9997	0.9993
19									1.0000	1.0000	0.9999	0.9997
20											1.0000	0.9999
21												1.0000

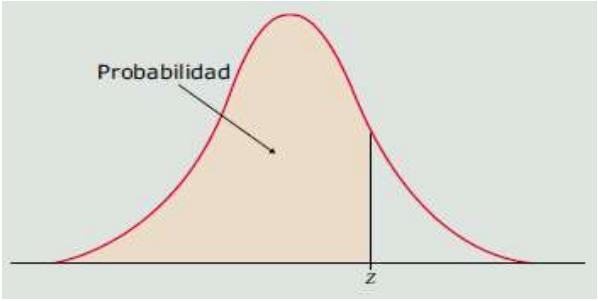
λ=μ x	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14
0	0.0002	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			
1	0.0019	0.0012	0.0008	0.0005	0.0003	0.0002	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000
2	0.0093	0.0062	0.0042	0.0028	0.0018	0.0012	0.0008	0.0005	0.0003	0.0002	0.0001	0.0001
3	0.0301	0.0212	0.0149	0.0103	0.0071	0.0049	0.0034	0.0023	0.0016	0.0011	0.0007	0.0005
4	0.0744	0.0550	0.0403	0.0293	0.0211	0.0151	0.0107	0.0076	0.0053	0.0037	0.0026	0.0018
5	0.1496	0.1157	0.0885	0.0671	0.0504	0.0375	0.0277	0.0203	0.0148	0.0107	0.0077	0.0055
6	0.2562	0.2068	0.1649	0.1301	0.1016	0.0786	0.0603	0.0458	0.0346	0.0259	0.0193	0.0142
7	0.3856	0.3239	0.2687	0.2202	0.1785	0.1432	0.1137	0.0895	0.0698	0.0540	0.0415	0.0316
8	0.5231	0.4557	0.3918	0.3328	0.2794	0.2320	0.1906	0.1550	0.1249	0.0998	0.0790	0.0621
9	0.6530	0.5874	0.5218	0.4579	0.3971	0.3405	0.2888	0.2424	0.2014	0.1658	0.1353	0.1094
10	0.7634	0.7060	0.6453	0.5830	0.5207	0.4599	0.4017	0.3472	0.2971	0.2517	0.2112	0.1757
11	0.8487	0.8030	0.7520	0.6968	0.6387	0.5793	0.5198	0.4616	0.4058	0.3532	0.3045	0.2600
12	0.9091	0.8758	0.8364	0.7916	0.7420	0.6887	0.6329	0.5760	0.5190	0.4631	0.4093	0.3585
13	0.9486	0.9261	0.8981	0.8645	0.8253	0.7813	0.7330	0.6815	0.6278	0.5730	0.5182	0.4644
14	0.9726	0.9585	0.9400	0.9165	0.8879	0.8540	0.8153	0.7720	0.7250	0.6751	0.6233	0.5704
15	0.9862	0.9780	0.9665	0.9513	0.9317	0.9074	0.8783	0.8444	0.8060	0.7636	0.7178	0.6694
16	0.9934	0.9889	0.9823	0.9730	0.9604	0.9441	0.9236	0.8987	0.8693	0.8355	0.7975	0.7559
17	0.9970	0.9947	0.9911	0.9857	0.9781	0.9678	0.9542	0.9370	0.9158	0.8905	0.8609	0.8272
18	0.9987	0.9976	0.9957	0.9928	0.9885	0.9823	0.9738	0.9626	0.9481	0.9302	0.9084	0.8826
19	0.9995	0.9989	0.9980	0.9965	0.9942	0.9907	0.9857	0.9787	0.9694	0.9573	0.9421	0.9235
20	0.9998	0.9996	0.9991	0.9984	0.9972	0.9953	0.9925	0.9884	0.9827	0.9750	0.9649	0.9521
21	0.9999	0.9998	0.9996	0.9993	0.9987	0.9977	0.9962	0.9939	0.9906	0.9859	0.9796	0.9712
22	1.0000	0.9999	0.9999	0.9997	0.9994	0.9990	0.9982	0.9970	0.9951	0.9924	0.9885	0.9833
23		1.0000	0.9999	0.9999	0.9998	0.9995	0.9992	0.9985	0.9975	0.9960	0.9938	0.9907
24			1.0000	1.0000	0.9999	0.9998	0.9996	0.9993	0.9988	0.9980	0.9968	0.9950
25					1.0000	0.9999	0.9998	0.9997	0.9994	0.9990	0.9984	0.9974
26						1.0000	0.9999	0.9999	0.9997	0.9995	0.9992	0.9987
27							1.0000	0.9999	0.9999	0.9998	0.9996	0.9994
28								1.0000	1.0000	0.9999	0.9998	0.9997
29										1.0000	0.9999	0.9999
30											1.0000	0.9999
31												1.0000

λ=μ x	15	16	17	18	19	20	21	22	23	24	25	26
2	0.0000	0.0000										
3	0.0002	0.0001	0.0000	0.0000								
4	0.0009	0.0004	0.0002	0.0001	0.0000	0.0000						
5	0.0028	0.0014	0.0007	0.0003	0.0002	0.0001	0.0000	0.0000				
6	0.0076	0.0040	0.0021	0.0010	0.0005	0.0003	0.0001	0.0001	0.0000			
7	0.0180	0.0100	0.0054	0.0029	0.0015	0.0008	0.0004	0.0002	0.0001	0.0000	0.0000	
8	0.0374	0.0220	0.0126	0.0071	0.0039	0.0021	0.0011	0.0006	0.0003	0.0002	0.0001	0.0000
9	0.0699	0.0433	0.0261	0.0154	0.0089	0.0050	0.0028	0.0015	0.0008	0.0004	0.0002	0.0001
10	0.1185	0.0774	0.0491	0.0304	0.0183	0.0108	0.0063	0.0035	0.0020	0.0011	0.0006	0.0003
11	0.1848	0.1270	0.0847	0.0549	0.0347	0.0214	0.0129	0.0076	0.0044	0.0025	0.0014	0.0008
12	0.2676	0.1931	0.1350	0.0917	0.0606	0.0390	0.0245	0.0151	0.0091	0.0054	0.0031	0.0018
13	0.3632	0.2745	0.2009	0.1426	0.0984	0.0661	0.0434	0.0278	0.0174	0.0107	0.0065	0.0038
14	0.4657	0.3675	0.2808	0.2081	0.1497	0.1049	0.0716	0.0477	0.0311	0.0198	0.0124	0.0076
15	0.5681	0.4667	0.3715	0.2867	0.2148	0.1565	0.1111	0.0769	0.0520	0.0344	0.0223	0.0142
16	0.6641	0.5660	0.4677	0.3751	0.2920	0.2211	0.1629	0.1170	0.0821	0.0563	0.0377	0.0248
17	0.7489	0.6593	0.5640	0.4686	0.3784	0.2970	0.2270	0.1690	0.1228	0.0871	0.0605	0.0411
18	0.8195	0.7423	0.6550	0.5622	0.4695	0.3814	0.3017	0.2325	0.1748	0.1283	0.0920	0.0646
19	0.8752	0.8122	0.7363	0.6509	0.5606	0.4703	0.3843	0.3060	0.2377	0.1803	0.1336	0.0968
20	0.9170	0.8682	0.8055	0.7307	0.6472	0.5591	0.4710	0.3869	0.3101	0.2426	0.1855	0.1387
21	0.9469	0.9108	0.8615	0.7991	0.7255	0.6437	0.5577	0.4716	0.3894	0.3139	0.2473	0.1905
22	0.9673	0.9418	0.9047	0.8551	0.7931	0.7206	0.6405	0.5564	0.4723	0.3917	0.3175	0.2517
23	0.9805	0.9633	0.9367	0.8989	0.8490	0.7875	0.7160	0.6374	0.5551	0.4728	0.3939	0.3209
24	0.9888	0.9777	0.9594	0.9317	0.8933	0.8432	0.7822	0.7117	0.6346	0.5540	0.4734	0.3959
25	0.9938	0.9869	0.9748	0.9554	0.9269	0.8878	0.8377	0.7771	0.7077	0.6319	0.5529	0.4739
26	0.9967	0.9925	0.9848	0.9718	0.9514	0.9221	0.8826	0.8324	0.7723	0.7038	0.6294	0.5519
27	0.9983	0.9959	0.9912	0.9827	0.9687	0.9475	0.9175	0.8775	0.8274	0.7677	0.7002	0.6270
28	0.9991	0.9978	0.9950	0.9897	0.9805	0.9657	0.9436	0.9129	0.8726	0.8225	0.7634	0.6967
29	0.9996	0.9989	0.9973	0.9941	0.9882	0.9782	0.9626	0.9398	0.9085	0.8679	0.8179	0.7593
30	0.9998	0.9994	0.9986	0.9967	0.9930	0.9865	0.9758	0.9595	0.9360	0.9042	0.8633	0.8134
31	0.9999	0.9997	0.9993	0.9982	0.9960	0.9919	0.9848	0.9735	0.9564	0.9322	0.8999	0.8589
32	1.0000	0.9999	0.9996	0.9990	0.9978	0.9953	0.9907	0.9831	0.9711	0.9533	0.9285	0.8958
33		0.9999	0.9998	0.9995	0.9988	0.9973	0.9945	0.9895	0.9813	0.9686	0.9502	0.9249
34		1.0000	0.9999	0.9998	0.9994	0.9985	0.9968	0.9936	0.9882	0.9794	0.9662	0.9472
35			1.0000	0.9999	0.9997	0.9992	0.9982	0.9962	0.9927	0.9868	0.9775	0.9637
36				0.9999	0.9998	0.9996	0.9990	0.9978	0.9956	0.9918	0.9854	0.9756
37				1.0000	0.9999	0.9998	0.9995	0.9988	0.9974	0.9950	0.9908	0.9840
38					1.0000	0.9999	0.9997	0.9993	0.9985	0.9970	0.9943	0.9897
39						0.9999	0.9999	0.9996	0.9992	0.9983	0.9966	0.9936
40						1.0000	0.9999	0.9998	0.9996	0.9990	0.9980	0.9961
41							1.0000	0.9999	0.9998	0.9995	0.9988	0.9976
42								1.0000	0.9999	0.9997	0.9993	0.9986
43									0.9999	0.9998	0.9996	0.9992
44									1.0000	0.9999	0.9998	0.9996
45										1.0000	0.9999	0.9998
46											0.9999	0.9999
47											1.0000	0.9999
48												1.0000

Tabla de Distribución Normal Estándar

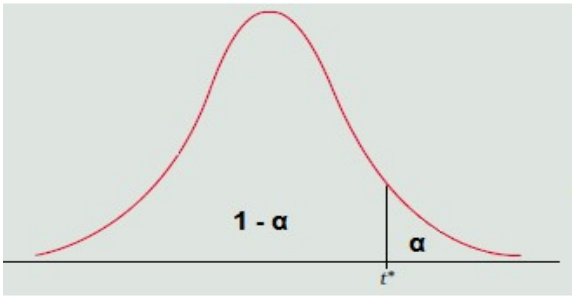
Función de Distribución Acumulada

Curso de Estadística de Tamara Burdisso. FCE - UBA



z	.00	.01	.02	.03	.04	.05	.06	.07	.08	.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
3.0	0.9987	0.9987	0.9987	0.9988	0.9988	0.9989	0.9989	0.9989	0.9990	0.9990
3.1	0.9990	0.9991	0.9991	0.9991	0.9992	0.9992	0.9992	0.9992	0.9993	0.9993
3.2	0.9993	0.9993	0.9994	0.9994	0.9994	0.9994	0.9994	0.9995	0.9995	0.9995
3.3	0.9995	0.9995	0.9995	0.9996	0.9996	0.9996	0.9996	0.9996	0.9996	0.9997
3.4	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9998
3.5	0.9998	0.9998	0.9998	0.9998	0.9998	0.9998	0.9998	0.9998	0.9998	0.9998
3.6	0.9998	0.9998	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999
3.7	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999
3.8	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999
3.9	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Tabla de Distribución t de Student



Función de Distribución Acumulada

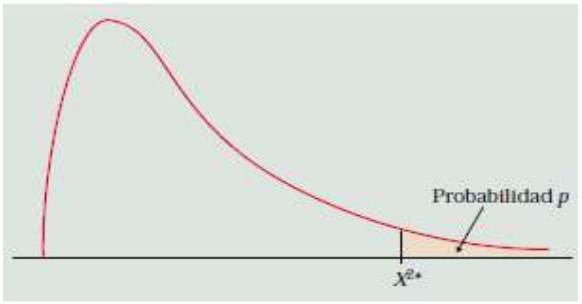
Curso de Estadística de Tamara Burdisso. FCE - UBA

	1 - α									
gl	**0.70**	**0.75**	**0.80**	**0.85**	**0.90**	**0.95**	**0.975**	**0.990**	**0.995**	**0.999**
1	0.7265	1.0000	1.3764	1.9626	3.0777	6.3138	12.7062	31.8205	63.6567	318.309
2	0.6172	0.8165	1.0607	1.3862	1.8856	2.9200	4.3027	6.9646	9.9248	22.327
3	0.5844	0.7649	0.9785	1.2498	1.6377	2.3534	3.1824	4.5407	5.8409	10.215
4	0.5686	0.7407	0.9410	1.1896	1.5332	2.1318	2.7764	3.7469	4.6041	7.173
5	0.5594	0.7267	0.9195	1.1558	1.4759	2.0150	2.5706	3.3649	4.0321	5.893
6	0.5534	0.7176	0.9057	1.1342	1.4398	1.9432	2.4469	3.1427	3.7074	5.208
7	0.5491	0.7111	0.8960	1.1192	1.4149	1.8946	2.3646	2.9980	3.4995	4.785
8	0.5459	0.7064	0.8889	1.1081	1.3968	1.8595	2.3060	2.8965	3.3554	4.501
9	0.5435	0.7027	0.8834	1.0997	1.3830	1.8331	2.2622	2.8214	3.2498	4.297
10	0.5415	0.6998	0.8791	1.0931	1.3722	1.8125	2.2281	2.7638	3.1693	4.144
11	0.5399	0.6974	0.8755	1.0877	1.3634	1.7959	2.2010	2.7181	3.1058	4.025
12	0.5386	0.6955	0.8726	1.0832	1.3562	1.7823	2.1788	2.6810	3.0545	3.930
13	0.5375	0.6938	0.8702	1.0795	1.3502	1.7709	2.1604	2.6503	3.0123	3.852
14	0.5366	0.6924	0.8681	1.0763	1.3450	1.7613	2.1448	2.6245	2.9768	3.787
15	0.5357	0.6912	0.8662	1.0735	1.3406	1.7531	2.1314	2.6025	2.9467	3.733
16	0.5350	0.6901	0.8647	1.0711	1.3368	1.7459	2.1199	2.5835	2.9208	3.686
17	0.5344	0.6892	0.8633	1.0690	1.3334	1.7396	2.1098	2.5669	2.8982	3.646
18	0.5338	0.6884	0.8620	1.0672	1.3304	1.7341	2.1009	2.5524	2.8784	3.610
19	0.5333	0.6876	0.8610	1.0655	1.3277	1.7291	2.0930	2.5395	2.8609	3.579
20	0.5329	0.6870	0.8600	1.0640	1.3253	1.7247	2.0860	2.5280	2.8453	3.552
21	0.5325	0.6864	0.8591	1.0627	1.3232	1.7207	2.0796	2.5176	2.8314	3.527
22	0.5321	0.6858	0.8583	1.0614	1.3212	1.7171	2.0739	2.5083	2.8188	3.505
23	0.5317	0.6853	0.8575	1.0603	1.3195	1.7139	2.0687	2.4999	2.8073	3.485
24	0.5314	0.6848	0.8569	1.0593	1.3178	1.7109	2.0639	2.4922	2.7969	3.467
25	0.5312	0.6844	0.8562	1.0584	1.3163	1.7081	2.0595	2.4851	2.7874	3.450
26	0.5309	0.6840	0.8557	1.0575	1.3150	1.7056	2.0555	2.4786	2.7787	3.435
27	0.5306	0.6837	0.8551	1.0567	1.3137	1.7033	2.0518	2.4727	2.7707	3.421
28	0.5304	0.6834	0.8546	1.0560	1.3125	1.7011	2.0484	2.4671	2.7633	3.408
29	0.5302	0.6830	0.8542	1.0553	1.3114	1.6991	2.0452	2.4620	2.7564	3.396
30	0.5300	0.6828	0.8538	1.0547	1.3104	1.6973	2.0423	2.4573	2.7500	3.385
40	0.5286	0.6807	0.8507	1.0500	1.3031	1.6839	2.0211	2.4233	2.7045	3.307
50	0.5278	0.6794	0.8489	1.0473	1.2987	1.6759	2.0086	2.4033	2.6778	3.261
60	0.5272	0.6786	0.8477	1.0455	1.2958	1.6706	2.0003	2.3901	2.6603	3.232
70	0.5268	0.6780	0.8468	1.0442	1.2938	1.6669	1.9944	2.3808	2.6479	3.211
80	0.5265	0.6776	0.8461	1.0432	1.2922	1.6641	1.9901	2.3739	2.6387	3.195
90	0.5263	0.6772	0.8456	1.0424	1.2910	1.6620	1.9867	2.3685	2.6316	3.183
100	0.5261	0.6770	0.8452	1.0418	1.2901	1.6602	1.9840	2.3642	2.6259	3.174
125	0.5257	0.6765	0.8445	1.0408	1.2884	1.6571	1.9791	2.3565	2.6157	3.157
150	0.5255	0.6761	0.8440	1.0400	1.2872	1.6551	1.9759	2.3515	2.6090	3.145
200	0.5252	0.6757	0.8434	1.0391	1.2858	1.6525	1.9719	2.3451	2.6006	3.131

Tabla de Distribución Chi Cuadrado

Función de Distribución Acumulada

Curso de Estadística de Tamara Burdisso. FCE - UBA



α

gl	0.001	0.005	0.01	0.025	0.05	0.10	0.20	0.25	0.30	0.40	0.50
1	10.8276	7.87944	6.6349	5.02389	3.84146	2.70554	1.64237	1.3233	1.07419	0.70833	0.45494
2	13.8155	10.5966	9.21034	7.37776	5.99146	4.60517	3.21888	2.77259	2.40795	1.83258	1.38629
3	16.2662	12.8382	11.3449	9.3484	7.81473	6.25139	4.64163	4.10834	3.66487	2.94617	2.36597
4	18.4668	14.8603	13.2767	11.1433	9.48773	7.77944	5.98862	5.38527	4.87843	4.04463	3.35669
5	20.515	16.7496	15.0863	12.8325	11.0705	9.23636	7.28928	6.62568	6.06443	5.13187	4.35146
6	22.4577	18.5476	16.8119	14.4494	12.5916	10.6446	8.55806	7.8408	7.23114	6.21076	5.34812
7	24.3219	20.2777	18.4753	16.0128	14.0671	12.017	9.80325	9.03715	8.38343	7.28321	6.34581
8	26.1245	21.955	20.0902	17.5345	15.5073	13.3616	11.0301	10.2189	9.52446	8.35053	7.34412
9	27.8772	23.5894	21.666	19.0228	16.919	14.6837	12.2421	11.3888	10.6564	9.41364	8.34283
10	29.5883	25.1882	23.2093	20.4832	18.307	15.9872	13.442	12.5489	11.7807	10.4732	9.34182
11	31.2641	26.7568	24.725	21.92	19.6751	17.275	14.6314	13.7007	12.8987	11.5298	10.341
12	32.9095	28.2995	26.217	23.3367	21.0261	18.5493	15.812	14.8454	14.0111	12.5838	11.3403
13	34.5282	29.8195	27.6882	24.7356	22.362	19.8119	16.9848	15.9839	15.1187	13.6356	12.3398
14	36.1233	31.3193	29.1412	26.1189	23.6848	21.0641	18.1508	17.1169	16.2221	14.6853	13.3393
15	37.6973	32.8013	30.5779	27.4884	24.9958	22.3071	19.3107	18.2451	17.3217	15.7332	14.3389
16	39.2524	34.2672	31.9999	28.8454	26.2962	23.5418	20.4651	19.3689	18.4179	16.7795	15.3385
17	40.7902	35.7185	33.4087	30.191	27.5871	24.769	21.6146	20.4887	19.511	17.8244	16.3382
18	42.3124	37.1565	34.8053	31.5264	28.8693	25.9894	22.7595	21.6049	20.6014	18.8679	17.3379
19	43.8202	38.5823	36.1909	32.8523	30.1435	27.2036	23.9004	22.7178	21.6891	19.9102	18.3377
20	45.3147	39.9968	37.5662	34.1696	31.4104	28.412	25.0375	23.8277	22.7745	20.9514	19.3374
21	46.797	41.4011	38.9322	35.4789	32.6706	29.6151	26.1711	24.9348	23.8578	21.9915	20.3372
22	48.2679	42.7957	40.2894	36.7807	33.9244	30.8133	27.3015	26.0393	24.939	23.0307	21.337
23	49.7282	44.1813	41.6384	38.0756	35.1725	32.0069	28.4288	27.1413	26.0184	24.0689	22.3369
24	51.1786	45.5585	42.9798	39.3641	36.415	33.1962	29.5533	28.2412	27.096	25.1063	23.3367
25	52.6197	46.9279	44.3141	40.6465	37.6525	34.3816	30.6752	29.3389	28.1719	26.143	24.3366
26	54.052	48.2899	45.6417	41.9232	38.8851	35.5632	31.7946	30.4346	29.2463	27.1789	25.3365
27	55.476	49.6449	46.9629	43.1945	40.1133	36.7412	32.9117	31.5284	30.3193	28.2141	26.3363
28	56.8923	50.9934	48.2782	44.4608	41.3371	37.9159	34.0266	32.6205	31.3909	29.2486	27.3362
29	58.3012	52.3356	49.5879	45.7223	42.557	39.0875	35.1394	33.7109	32.4612	30.2825	28.3361
30	59.7031	53.672	50.8922	46.9792	43.773	40.256	36.2502	34.7997	33.5302	31.3159	29.336
40	73.402	66.766	63.6907	59.3417	55.7585	51.8051	47.2685	45.616	44.1649	41.6222	39.3353
50	86.6608	79.49	76.1539	71.4202	67.5048	63.1671	58.1638	56.3336	54.7228	51.8916	49.3349
60	99.6072	91.9517	88.3794	83.2977	79.0819	74.397	68.9721	66.9815	65.2265	62.1348	59.3347
70	112.317	104.215	100.425	95.0232	90.5312	85.527	79.7146	77.5767	75.6893	72.3583	69.3345
80	124.839	116.321	112.329	106.629	101.879	96.5782	90.4053	88.1303	86.1197	82.5663	79.3343
90	137.208	128.299	124.116	118.136	113.145	107.565	101.054	98.6499	96.5238	92.7614	89.3342
100	149.449	140.169	135.807	129.561	124.342	118.498	111.667	109.141	106.906	102.946	99.3341
125	179.604	169.471	164.694	157.839	152.094	145.643	138.076	135.271	132.784	128.37	124.334
150	209.265	198.36	193.208	185.8	179.581	172.581	164.349	161.291	158.577	153.753	149.334
200	267.541	255.264	249.445	241.058	233.994	226.021	216.609	213.102	209.985	204.434	199.334

	α									
gl	**0.60**	**0.70**	**0.75**	**0.80**	**0.90**	**0.95**	**0.975**	**0.99**	**0.995**	**0.999**
1	0.275	0.14847	0.10153	0.06418	0.01579	0.00393	0.00098	0.00016	0.0000	0.0000
2	1.02165	0.71335	0.57536	0.44629	0.21072	0.10259	0.05064	0.0201	0.0100	0.0020
3	1.86917	1.42365	1.21253	1.00517	0.58437	0.35185	0.2158	0.11483	0.0717	0.0243
4	2.75284	2.1947	1.92256	1.64878	1.06362	0.71072	0.48442	0.29711	0.2070	0.0908
5	3.6555	2.99991	2.6746	2.34253	1.61031	1.14548	0.83121	0.5543	0.4117	0.2102
6	4.57015	3.82755	3.4546	3.07009	2.20413	1.63538	1.23734	0.87209	0.6757	0.3811
7	5.49323	4.67133	4.25485	3.82232	2.83311	2.16735	1.68987	1.23904	0.9893	0.5985
8	6.42265	5.52742	5.07064	4.59357	3.48954	2.73264	2.17973	1.6465	1.3444	0.8571
9	7.35703	6.39331	5.89883	5.38005	4.16816	3.32511	2.70039	2.0879	1.7349	1.1519
10	8.29547	7.26722	6.7372	6.17908	4.86518	3.9403	3.24697	2.55821	2.1559	1.4787
11	9.23729	8.14787	7.58414	6.98867	5.57778	4.57481	3.81575	3.05348	2.6032	1.8339
12	10.182	9.03428	8.43842	7.80733	6.3038	5.22603	4.40379	3.57057	3.0738	2.2142
13	11.1291	9.92568	9.29907	8.63386	7.0415	5.89186	5.00875	4.10692	3.5650	2.6172
14	12.0785	10.8215	10.1653	9.46733	7.78953	6.57063	5.62873	4.66043	4.0747	3.0407
15	13.0297	11.7212	11.0365	10.307	8.54676	7.26094	6.26214	5.22935	4.6009	3.4827
16	13.9827	12.6243	11.9122	11.1521	9.31224	7.96165	6.90766	5.81221	5.1422	3.9416
17	14.9373	13.5307	12.7919	12.0023	10.0852	8.67176	7.56419	6.40776	5.6972	4.4161
18	15.8932	14.4399	13.6753	12.857	10.8649	9.39046	8.23075	7.01491	6.2648	4.9048
19	16.8504	15.3517	14.562	13.7158	11.6509	10.117	8.90652	7.63273	6.8440	5.4068
20	17.8088	16.2659	15.4518	14.5784	12.4426	10.8508	9.59078	8.2604	7.4338	5.9210
21	18.7683	17.1823	16.3444	15.4446	13.2396	11.5913	10.2829	8.8972	8.0337	6.4467
22	19.7288	18.1007	17.2396	16.314	14.0415	12.338	10.9823	9.54249	8.6427	6.9830
23	20.6902	19.0211	18.1373	17.1865	14.848	13.0905	11.6886	10.1957	9.2604	7.5292
24	21.6525	19.9432	19.0373	18.0618	15.6587	13.8484	12.4012	10.8564	9.8862	8.0849
25	22.6156	20.867	19.9393	18.9398	16.4734	14.6114	13.1197	11.524	10.5197	8.6493
26	23.5794	21.7924	20.8434	19.8202	17.2919	15.3792	13.8439	12.1981	11.1602	9.2221
27	24.544	22.7192	21.7494	20.703	18.1139	16.1514	14.5734	12.8785	11.8076	9.8028
28	25.5093	23.6475	22.6572	21.588	18.9392	16.9279	15.3079	13.5647	12.4613	10.3909
29	26.4751	24.577	23.5666	22.4751	19.7677	17.7084	16.0471	14.2565	13.1211	10.9861
30	27.4416	25.5078	24.4776	23.3641	20.5992	18.4927	16.7908	14.9535	13.7867	11.5880
40	37.134	34.8719	33.6603	32.345	29.0505	26.5093	24.433	22.1643	20.7065	17.9164
50	46.8638	44.3133	42.9421	41.4492	37.6886	34.7643	32.3574	29.7067	27.9907	24.6739
60	56.62	53.8091	52.2938	50.6406	46.4589	43.188	40.4817	37.4849	35.5345	31.7383
70	66.3961	63.346	61.6983	59.8978	55.3289	51.7393	48.7576	45.4417	43.2752	39.0364
80	76.1879	72.9153	71.1445	69.2069	64.2778	60.3915	57.1532	53.5401	51.1719	46.5199
90	85.9925	82.5111	80.6247	78.5584	73.2911	69.126	65.6466	61.7541	59.1963	54.1552
100	95.8078	92.1289	90.1332	87.9453	82.3581	77.9295	74.2219	70.0649	67.3276	61.9179
125	120.383	116.251	114.004	111.536	105.213	100.178	95.9457	91.1798	88.0289	81.7697
150	145	140.457	137.983	135.263	128.275	122.692	117.985	112.668	109.142	102.113
200	194.319	189.049	186.172	183.003	174.835	168.279	162.728	156.432	152.241	143.843