

Tables Statistiques Usuelles

Table 1: Table de la loi binomiale

$$P(X = k) = C_n^k p^k (1 - p)^{n-k}$$

(k le nombre d'occurrences parmi n)

n = 10										
k	p									
	0,05	0,10	0,15	0,20	0,25	0,30	0,35	0,40	0,45	0,50
0	0,5987	0,3487	0,1969	0,1074	0,0563	0,0282	0,0135	0,0060	0,0025	0,0010
1	0,9139	0,7361	0,5443	0,3758	0,2440	0,1493	0,0860	0,0464	0,0233	0,0107
2	0,9885	0,9298	0,8202	0,6778	0,5256	0,3828	0,2616	0,1673	0,0996	0,0547
3	0,9990	0,9872	0,9500	0,8791	0,7759	0,6496	0,5138	0,3823	0,2660	0,1719
4	0,9999	0,9984	0,9901	0,9672	0,9219	0,8497	0,7515	0,6331	0,5044	0,3770
5	1,0000	0,9999	0,9986	0,9936	0,9803	0,9527	0,9051	0,8338	0,7384	0,6230
6	1,0000	1,0000	0,9999	0,9991	0,9965	0,9894	0,9740	0,9452	0,8980	0,8281
7	1,0000	1,0000	1,0000	0,9999	0,9996	0,9984	0,9952	0,9877	0,9726	0,9453
8	1,0000	1,0000	1,0000	1,0000	1,0000	0,9999	0,9995	0,9983	0,9955	0,9893
9	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	0,9999	0,9997	0,9990
10	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000

n=20										
k	p									
	0,05	0,10	0,15	0,20	0,25	0,30	0,35	0,40	0,45	0,50
0	0,3585	0,1216	0,0388	0,0115	0,0032	0,0008	0,0002	0,0000	0,0000	0,0000
1	0,7358	0,3917	0,1756	0,0692	0,0243	0,0076	0,0021	0,0005	0,0001	0,0000
2	0,9245	0,6769	0,4049	0,2061	0,0913	0,0355	0,0121	0,0036	0,0009	0,0002
3	0,9841	0,8670	0,6477	0,4114	0,2252	0,1071	0,0444	0,0160	0,0049	0,0013
4	0,9974	0,9568	0,8298	0,6296	0,4148	0,2375	0,1182	0,0510	0,0189	0,0059
5	0,9997	0,9887	0,9327	0,8042	0,6172	0,4164	0,2454	0,1256	0,0553	0,0207
6	1,0000	0,9976	0,9781	0,9133	0,7858	0,6080	0,4166	0,2500	0,1299	0,0577
7	1,0000	0,9996	0,9941	0,9679	0,8982	0,7723	0,6010	0,4159	0,2520	0,1316
8	1,0000	0,9999	0,9987	0,9900	0,9591	0,8867	0,7624	0,5956	0,4143	0,2517
9	1,0000	1,0000	0,9998	0,9974	0,9861	0,9520	0,8782	0,7553	0,5914	0,4119
10	1,0000	1,0000	1,0000	0,9994	0,9961	0,9829	0,9468	0,8725	0,7507	0,5881
11	1,0000	1,0000	1,0000	0,9999	0,9991	0,9949	0,9804	0,9435	0,8692	0,7483
12	1,0000	1,0000	1,0000	1,0000	0,9998	0,9987	0,9940	0,9790	0,9420	0,8684
13	1,0000	1,0000	1,0000	1,0000	1,0000	0,9997	0,9985	0,9935	0,9786	0,9423
14	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	0,9997	0,9984	0,9936	0,9793
15	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	0,9997	0,9985	0,9941
16	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	0,9997	0,9987
17	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	0,9998
18	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000

Table 2: Table de la loi binomiale (suite)

$$P(X = k) = C_n^k p^k (1 - p)^{n-k}$$

(k le nombre d'occurrences parmi n)

		n = 25									
		p									
		0,05	0,10	0,15	0,20	0,25	0,30	0,35	0,40	0,45	0,50
k	0	0,2774	0,0718	0,0172	0,0038	0,0008	0,0001	0,0000	0,0000	0,0000	0,0000
	1	0,6424	0,2712	0,0931	0,0274	0,0070	0,0016	0,0003	0,0001	0,0000	0,0000
	2	0,8729	0,5371	0,2537	0,0982	0,0321	0,0090	0,0021	0,0004	0,0001	0,0000
	3	0,9659	0,7636	0,4711	0,2340	0,0962	0,0332	0,0097	0,0024	0,0005	0,0001
	4	0,9928	0,9020	0,6821	0,4207	0,2137	0,0905	0,0320	0,0095	0,0023	0,0005
	5	0,9988	0,9666	0,8385	0,6167	0,3783	0,1935	0,0826	0,0294	0,0086	0,0020
	6	0,9998	0,9905	0,9305	0,7800	0,5611	0,3407	0,1734	0,0736	0,0258	0,0073
	7	1,0000	0,9977	0,9745	0,8909	0,7265	0,5118	0,3061	0,1536	0,0639	0,0216
	8	1,0000	0,9995	0,9920	0,9532	0,8506	0,6769	0,4668	0,2735	0,1340	0,0539
	9	1,0000	0,9999	0,9979	0,9827	0,9287	0,8106	0,6303	0,4246	0,2424	0,1148
	10	1,0000	1,0000	0,9995	0,9944	0,9703	0,9022	0,7712	0,5858	0,3843	0,2122
	11	1,0000	1,0000	0,9999	0,9985	0,9893	0,9558	0,8746	0,7323	0,5426	0,3450
	12	1,0000	1,0000	1,0000	0,9996	0,9966	0,9825	0,9396	0,8462	0,6937	0,5000
	13	1,0000	1,0000	1,0000	0,9999	0,9991	0,9940	0,9745	0,9222	0,8173	0,6550
	14	1,0000	1,0000	1,0000	1,0000	0,9998	0,9982	0,9907	0,9656	0,9040	0,7878
	15	1,0000	1,0000	1,0000	1,0000	1,0000	0,9995	0,9971	0,9868	0,9560	0,8852
	16	1,0000	1,0000	1,0000	1,0000	1,0000	0,9999	0,9992	0,9957	0,9826	0,9461
	17	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	0,9998	0,9988	0,9942	0,9784
	18	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	0,9997	0,9984	0,9927
	19	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	0,9999	0,9996	0,9980
	20	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	0,9999	0,9995
	21	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	0,9999
	22	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000

Table 3: Table de la loi binomiale (suite)

$$P(X = k) = C_n^k p^k (1 - p)^{n-k}$$

(k le nombre d'occurrences parmi n)

n = 50										
k	p									
	0,05	0,10	0,15	0,20	0,25	0,30	0,35	0,40	0,45	0,50
0	0,0769	0,0052	0,0003	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
1	0,2794	0,0338	0,0029	0,0002	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000
2	0,5405	0,1117	0,0142	0,0013	0,0001	0,0000	0,0000	0,0000	0,0000	0,0000
3	0,7604	0,2503	0,0460	0,0057	0,0005	0,0000	0,0000	0,0000	0,0000	0,0000
4	0,8964	0,4312	0,1121	0,0185	0,0021	0,0002	0,0000	0,0000	0,0000	0,0000
5	0,9622	0,6161	0,2194	0,0480	0,0070	0,0007	0,0001	0,0000	0,0000	0,0000
6	0,9882	0,7702	0,3613	0,1034	0,0194	0,0025	0,0002	0,0000	0,0000	0,0000
7	0,9968	0,8779	0,5188	0,1904	0,0453	0,0073	0,0008	0,0001	0,0000	0,0000
8	0,9992	0,9421	0,6681	0,3073	0,0916	0,0183	0,0025	0,0002	0,0000	0,0000
9	0,9998	0,9755	0,7911	0,4437	0,1637	0,0402	0,0067	0,0008	0,0001	0,0000
10	1,0000	0,9906	0,8801	0,5836	0,2622	0,0789	0,0160	0,0022	0,0002	0,0000
11	1,0000	0,9968	0,9372	0,7107	0,3816	0,1390	0,0342	0,0057	0,0006	0,0000
12	1,0000	0,9990	0,9699	0,8139	0,5110	0,2229	0,0661	0,0133	0,0018	0,0002
13	1,0000	0,9997	0,9868	0,8894	0,6370	0,3279	0,1163	0,0280	0,0045	0,0005
14	1,0000	0,9999	0,9947	0,9393	0,7481	0,4468	0,1878	0,0540	0,0104	0,0013
15	1,0000	1,0000	0,9981	0,9692	0,8369	0,5692	0,2801	0,0955	0,0220	0,0033
16	1,0000	1,0000	0,9993	0,9856	0,9017	0,6839	0,3889	0,1561	0,0427	0,0077
17	1,0000	1,0000	0,9998	0,9937	0,9449	0,7822	0,5060	0,2369	0,0765	0,0164
18	1,0000	1,0000	0,9999	0,9975	0,9713	0,8594	0,6216	0,3356	0,1273	0,0325
19	1,0000	1,0000	1,0000	0,9991	0,9861	0,9152	0,7264	0,4465	0,1974	0,0595
20	1,0000	1,0000	1,0000	0,9997	0,9937	0,9522	0,8139	0,5610	0,2862	0,1013
21	1,0000	1,0000	1,0000	0,9999	0,9974	0,9749	0,8813	0,6701	0,3900	0,1611
22	1,0000	1,0000	1,0000	1,0000	0,9990	0,9877	0,9290	0,7660	0,5019	0,2399
23	1,0000	1,0000	1,0000	1,0000	0,9996	0,9944	0,9604	0,8438	0,6134	0,3359
24	1,0000	1,0000	1,0000	1,0000	0,9999	0,9976	0,9793	0,9022	0,7160	0,4439
25	1,0000	1,0000	1,0000	1,0000	1,0000	0,9991	0,9900	0,9427	0,8034	0,5561
26	1,0000	1,0000	1,0000	1,0000	1,0000	0,9997	0,9955	0,9686	0,8721	0,6641
27	1,0000	1,0000	1,0000	1,0000	1,0000	0,9999	0,9981	0,9840	0,9220	0,7601
28	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	0,9993	0,9924	0,9556	0,8389
29	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	0,9997	0,9966	0,9765	0,8987
30	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	0,9999	0,9986	0,9884	0,9405
31	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	0,9995	0,9947	0,9675
32	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	0,9998	0,9978	0,9836
33	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	0,9999	0,9991	0,9923
34	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	0,9997	0,9967
35	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	0,9999	0,9987
36	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	0,9995
37	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	0,9998
38	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000

Table 4: Table de la loi de Poisson

$$P(X = k) = e^{-\mu} \frac{\mu^k}{k!}$$

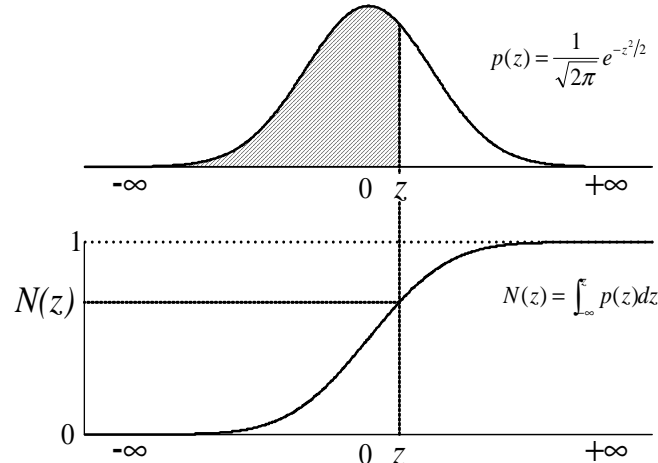
(μ le nombre d’occurrences moyen)

		μ									
		0, 1	0, 2	0, 3	0, 4	0, 5	0, 6	0, 7	0, 8	0, 9	1, 0
x	0	0,9048	0,8187	0,7408	0,6703	0,6065	0,5488	0,4966	0,4493	0,4066	0,3679
	1	0,9953	0,9825	0,9631	0,9384	0,9098	0,8781	0,8442	0,8088	0,7725	0,7358
	2	0,9998	0,9989	0,9964	0,9921	0,9856	0,9769	0,9659	0,9526	0,9371	0,9197
	3	1,0000	0,9999	0,9997	0,9992	0,9982	0,9966	0,9942	0,9909	0,9865	0,9810
	4	1,0000	1,0000	1,0000	0,9999	0,9998	0,9996	0,9992	0,9986	0,9977	0,9963
	5	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	0,9999	0,9998	0,9997	0,9994
	6	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	0,9999
	7	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000

		μ									
		1, 5	2	3	4	5	6	7	8	9	10
x	0	0,2231	0,1353	0,0498	0,0183	0,0067	0,0025	0,0009	0,0003	0,0001	0,0000
	1	0,5578	0,4060	0,1991	0,0916	0,0404	0,0174	0,0073	0,0030	0,0012	0,0005
	2	0,8088	0,6767	0,4232	0,2381	0,1247	0,0620	0,0296	0,0138	0,0062	0,0028
	3	0,9344	0,8571	0,6472	0,4335	0,2650	0,1512	0,0818	0,0424	0,0212	0,0103
	4	0,9814	0,9473	0,8153	0,6288	0,4405	0,2851	0,1730	0,0996	0,0550	0,0293
	5	0,9955	0,9834	0,9161	0,7851	0,6160	0,4457	0,3007	0,1912	0,1157	0,0671
	6	0,9991	0,9955	0,9665	0,8893	0,7622	0,6063	0,4497	0,3134	0,2068	0,1301
	7	0,9998	0,9989	0,9881	0,9489	0,8666	0,7440	0,5987	0,4530	0,3239	0,2202
	8	1,0000	0,9998	0,9962	0,9786	0,9319	0,8472	0,7291	0,5925	0,4557	0,3328
	9	1,0000	1,0000	0,9989	0,9919	0,9682	0,9161	0,8305	0,7166	0,5874	0,4579
	10	1,0000	1,0000	0,9997	0,9972	0,9863	0,9574	0,9015	0,8159	0,7060	0,5830
	11	1,0000	1,0000	0,9999	0,9991	0,9945	0,9799	0,9467	0,8881	0,8030	0,6968
	12	1,0000	1,0000	1,0000	0,9997	0,9980	0,9912	0,9730	0,9362	0,8758	0,7916
	13	1,0000	1,0000	1,0000	0,9999	0,9993	0,9964	0,9872	0,9658	0,9261	0,8645
	14	1,0000	1,0000	1,0000	1,0000	0,9998	0,9986	0,9943	0,9827	0,9585	0,9165
	15	1,0000	1,0000	1,0000	1,0000	0,9999	0,9995	0,9976	0,9918	0,9780	0,9513
	16	1,0000	1,0000	1,0000	1,0000	1,0000	0,9998	0,9990	0,9963	0,9889	0,9730
	17	1,0000	1,0000	1,0000	1,0000	1,0000	0,9999	0,9996	0,9984	0,9947	0,9857
	18	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	0,9999	0,9993	0,9976	0,9928
	19	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	0,9997	0,9989	0,9965
	20	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	0,9999	0,9996	0,9984
	21	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	0,9998	0,9993
	22	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	0,9999	0,9997
	23	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	0,9999
	24	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000	1,0000

Table 5: Table de la loi normale centrée réduite

Probabilité qu'une variable aléatoire continue suivant une loi normale standard (ou centrée réduite) soit inférieure au seuil z .



La table ci-dessous présente les valeurs pour z positif. Pour z négatif la valeur est $N(z) = 1 - N(-z)$

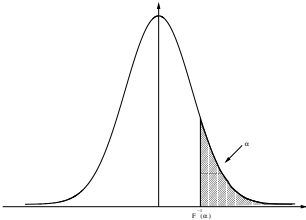
z	0,00	0,01	0,02	0,03	0,04	0,05	0,06	0,07	0,08	0,09
0,0	0,500000	0,503989	0,507978	0,511966	0,515953	0,519939	0,523922	0,527903	0,531881	0,535856
0,1	0,539828	0,543795	0,547758	0,551717	0,555670	0,559618	0,563559	0,567495	0,571424	0,575345
0,2	0,579260	0,583166	0,587064	0,590954	0,594835	0,598706	0,602568	0,606420	0,610261	0,614092
0,3	0,617911	0,621720	0,625516	0,629300	0,633072	0,636831	0,640576	0,644309	0,648027	0,651732
0,4	0,655422	0,659097	0,662757	0,666402	0,670031	0,673645	0,677242	0,680822	0,684386	0,687933
0,5	0,691462	0,694974	0,698468	0,701944	0,705401	0,708840	0,712260	0,715661	0,719043	0,722405
0,6	0,725747	0,729069	0,732371	0,735653	0,738914	0,742154	0,745373	0,748571	0,751748	0,754903
0,7	0,758036	0,761148	0,764238	0,767305	0,770350	0,773373	0,776373	0,779350	0,782305	0,785236
0,8	0,788145	0,791030	0,793892	0,796731	0,799546	0,802337	0,805105	0,807850	0,810570	0,813267
0,9	0,815940	0,818589	0,821214	0,823814	0,826391	0,828944	0,831472	0,833977	0,836457	0,838913
1,0	0,841345	0,843752	0,846136	0,848495	0,850830	0,853141	0,855428	0,857690	0,859929	0,862143
1,1	0,864334	0,866500	0,868643	0,870762	0,872857	0,874928	0,876976	0,879000	0,881000	0,882977
1,2	0,884930	0,886861	0,888768	0,890651	0,892512	0,894350	0,896165	0,897958	0,899727	0,901475
1,3	0,903200	0,904902	0,906582	0,908241	0,909877	0,911492	0,913085	0,914657	0,916207	0,917736
1,4	0,919243	0,920730	0,922196	0,923641	0,925066	0,926471	0,927855	0,929219	0,930563	0,931888
1,5	0,933193	0,934478	0,935745	0,936992	0,938220	0,939429	0,940620	0,941792	0,942947	0,944083
1,6	0,945201	0,946301	0,947384	0,948449	0,949497	0,950529	0,951543	0,952540	0,953521	0,954486
1,7	0,955435	0,956367	0,957284	0,958185	0,959070	0,959941	0,960796	0,961636	0,962462	0,963273
1,8	0,964070	0,964852	0,965620	0,966375	0,967116	0,967843	0,968557	0,969258	0,969946	0,970621
1,9	0,971283	0,971933	0,972571	0,973197	0,973810	0,974412	0,975002	0,975581	0,976148	0,976705
2,0	0,977250	0,977784	0,978308	0,978822	0,979325	0,979818	0,980301	0,980774	0,981237	0,981691
2,1	0,982136	0,982571	0,982997	0,983414	0,983823	0,984222	0,984614	0,984997	0,985371	0,985738
2,2	0,986097	0,986447	0,986791	0,987126	0,987455	0,987776	0,988089	0,988396	0,988696	0,988989
2,3	0,989276	0,989556	0,989830	0,990097	0,990358	0,990613	0,990863	0,991106	0,991344	0,991576
2,4	0,991802	0,992024	0,992240	0,992451	0,992656	0,992857	0,993053	0,993244	0,993431	0,993613
2,5	0,993790	0,993963	0,994132	0,994297	0,994457	0,994614	0,994766	0,994915	0,995060	0,995201
2,6	0,995339	0,995473	0,995604	0,995731	0,995855	0,995975	0,996093	0,996207	0,996319	0,996427
2,7	0,996533	0,996636	0,996736	0,996833	0,996928	0,997020	0,997110	0,997197	0,997282	0,997365
2,8	0,997445	0,997523	0,997599	0,997673	0,997744	0,997814	0,997882	0,997948	0,998012	0,998074
2,9	0,998134	0,998193	0,998250	0,998305	0,998359	0,998411	0,998462	0,998511	0,998559	0,998605

Pour les valeurs de z supérieures à 3 :

z	3,0	3,1	3,2	3,3	3,4	3,5	3,6	3,8	4,0	4,5
$N(z)$	0,998650	0,999032	0,999313	0,999517	0,999663	0,999767	0,999841	0,999928	0,999968	0,999997

Table 6: Table de la loi normale : quantiles

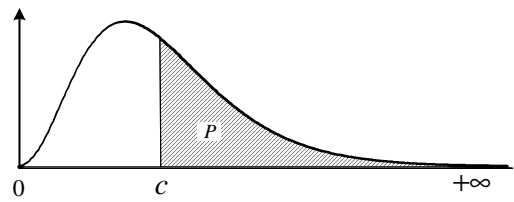
Pour une valeur $\alpha \in]0; 0.5[$, la table ci-dessous renvoie la valeur $F^{-1}(\alpha)$ de la fonction quantile F^{-1} de la loi normale centrée réduite au point α .



α	0.000	0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009
0.00	∞	3.0902	2.8782	2.7478	2.6521	2.5758	2.5121	2.4573	2.4089	2.3656
0.01	2.3263	2.2904	2.2571	2.2262	2.1973	2.1701	2.1444	2.1201	2.0969	2.0749
0.02	2.0537	2.0335	2.0141	1.9954	1.9774	1.9600	1.9431	1.9268	1.9110	1.8957
0.03	1.8808	1.8663	1.8522	1.8384	1.8250	1.8119	1.7991	1.7866	1.7744	1.7624
0.04	1.7507	1.7392	1.7279	1.7169	1.7060	1.6954	1.6849	1.6747	1.6646	1.6546
0.05	1.6449	1.6352	1.6258	1.6164	1.6072	1.5982	1.5893	1.5805	1.5718	1.5632
0.06	1.5548	1.5464	1.5382	1.5301	1.5220	1.5141	1.5063	1.4985	1.4909	1.4833
0.07	1.4758	1.4684	1.4611	1.4538	1.4466	1.4395	1.4325	1.4255	1.4187	1.4118
0.08	1.4051	1.3984	1.3917	1.3852	1.3787	1.3722	1.3658	1.3595	1.3532	1.3469
0.09	1.3408	1.3346	1.3285	1.3225	1.3165	1.3106	1.3047	1.2988	1.2930	1.2873
0.10	1.2816	1.2759	1.2702	1.2646	1.2591	1.2536	1.2481	1.2426	1.2372	1.2319
0.11	1.2265	1.2212	1.2160	1.2107	1.2055	1.2004	1.1952	1.1901	1.1850	1.1800
0.12	1.1750	1.1700	1.1650	1.1601	1.1552	1.1503	1.1455	1.1407	1.1359	1.1311
0.13	1.1264	1.1217	1.1170	1.1123	1.1077	1.1031	1.0985	1.0939	1.0893	1.0848
0.14	1.0803	1.0758	1.0714	1.0669	1.0625	1.0581	1.0537	1.0494	1.0450	1.0407
0.15	1.0364	1.0322	1.0279	1.0237	1.0194	1.0152	1.0110	1.0069	1.0027	0.9986
0.16	0.9945	0.9904	0.9863	0.9822	0.9782	0.9741	0.9701	0.9661	0.9621	0.9581
0.17	0.9542	0.9502	0.9463	0.9424	0.9385	0.9346	0.9307	0.9269	0.9230	0.9192
0.18	0.9154	0.9116	0.9078	0.9040	0.9002	0.8965	0.8927	0.8890	0.8853	0.8816
0.19	0.8779	0.8742	0.8705	0.8669	0.8633	0.8596	0.8560	0.8524	0.8488	0.8452
0.20	0.8416	0.8381	0.8345	0.8310	0.8274	0.8239	0.8204	0.8169	0.8134	0.8099
0.21	0.8064	0.8030	0.7995	0.7961	0.7926	0.7892	0.7858	0.7824	0.7790	0.7756
0.22	0.7722	0.7688	0.7655	0.7621	0.7588	0.7554	0.7521	0.7488	0.7454	0.7421
0.23	0.7388	0.7356	0.7323	0.7290	0.7257	0.7225	0.7192	0.7160	0.7128	0.7095
0.24	0.7063	0.7031	0.6999	0.6967	0.6935	0.6903	0.6871	0.6840	0.6808	0.6776
0.25	0.6745	0.6713	0.6682	0.6651	0.6620	0.6588	0.6557	0.6526	0.6495	0.6464
0.26	0.6433	0.6403	0.6372	0.6341	0.6311	0.6280	0.6250	0.6219	0.6189	0.6158
0.27	0.6128	0.6098	0.6068	0.6038	0.6008	0.5978	0.5948	0.5918	0.5888	0.5858
0.28	0.5828	0.5799	0.5769	0.5740	0.5710	0.5681	0.5651	0.5622	0.5592	0.5563
0.29	0.5534	0.5505	0.5476	0.5446	0.5417	0.5388	0.5359	0.5330	0.5302	0.5273
0.30	0.5244	0.5215	0.5187	0.5158	0.5129	0.5101	0.5072	0.5044	0.5015	0.4987
0.31	0.4959	0.4930	0.4902	0.4874	0.4845	0.4817	0.4789	0.4761	0.4733	0.4705
0.32	0.4677	0.4649	0.4621	0.4593	0.4565	0.4538	0.4510	0.4482	0.4454	0.4427
0.33	0.4399	0.4372	0.4344	0.4316	0.4289	0.4261	0.4234	0.4207	0.4179	0.4152
0.34	0.4125	0.4097	0.4070	0.4043	0.4016	0.3989	0.3961	0.3934	0.3907	0.3880
0.35	0.3853	0.3826	0.3799	0.3772	0.3745	0.3719	0.3692	0.3665	0.3638	0.3611
0.36	0.3585	0.3558	0.3531	0.3505	0.3478	0.3451	0.3425	0.3398	0.3372	0.3345
0.37	0.3319	0.3292	0.3266	0.3239	0.3213	0.3186	0.3160	0.3134	0.3107	0.3081
0.38	0.3055	0.3029	0.3002	0.2976	0.2950	0.2924	0.2898	0.2871	0.2845	0.2819
0.39	0.2793	0.2767	0.2741	0.2715	0.2689	0.2663	0.2637	0.2611	0.2585	0.2559
0.40	0.2533	0.2508	0.2482	0.2456	0.2430	0.2404	0.2378	0.2353	0.2327	0.2301
0.41	0.2275	0.2250	0.2224	0.2198	0.2173	0.2147	0.2121	0.2096	0.2070	0.2045
0.42	0.2019	0.1993	0.1968	0.1942	0.1917	0.1891	0.1866	0.1840	0.1815	0.1789
0.43	0.1764	0.1738	0.1713	0.1687	0.1662	0.1637	0.1611	0.1586	0.1560	0.1535
0.44	0.1510	0.1484	0.1459	0.1434	0.1408	0.1383	0.1358	0.1332	0.1307	0.1282
0.45	0.1257	0.1231	0.1206	0.1181	0.1156	0.1130	0.1105	0.1080	0.1055	0.1030
0.46	0.1004	0.0979	0.0954	0.0929	0.0904	0.0878	0.0853	0.0828	0.0803	0.0778
0.47	0.0753	0.0728	0.0702	0.0677	0.0652	0.0627	0.0602	0.0577	0.0552	0.0527
0.48	0.0502	0.0476	0.0451	0.0426	0.0401	0.0376	0.0351	0.0326	0.0301	0.0276
0.49	0.0251	0.0226	0.0201	0.0175	0.0150	0.0125	0.0100	0.0075	0.0050	0.0025

Table 7: Table de la loi du χ^2

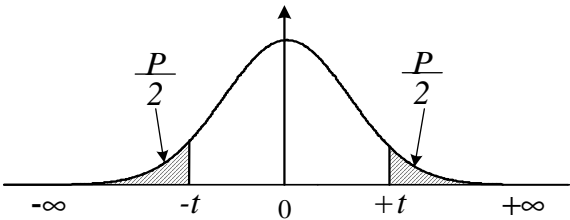
Valeurs de c ayant la probabilité P d'être dépassées en valeur absolue.



r	P= 0,990	P= 0,975	P= 0,950	P= 0,900	P= 0,800	P= 0,700	P= 0,500	P= 0,300	P= 0,200	P= 0,100	P= 0,010	P= 0,005	P= 0,001
1	0,000	0,001	0,004	0,016	0,064	0,148	0,455	1,074	1,642	2,706	6,635	7,879	10,828
2	0,020	0,051	0,103	0,211	0,446	0,713	1,386	2,408	3,219	4,605	9,210	10,597	13,816
3	0,115	0,216	0,352	0,584	1,005	1,424	2,366	3,665	4,642	6,251	11,345	12,838	16,266
4	0,297	0,484	0,711	1,064	1,649	2,195	3,357	4,878	5,989	7,779	13,277	14,860	18,467
5	0,554	0,831	1,145	1,610	2,343	3,000	4,351	6,064	7,289	9,236	15,086	16,750	20,515
6	0,872	1,237	1,635	2,204	3,070	3,828	5,348	7,231	8,558	10,645	16,812	18,548	22,458
7	1,239	1,690	2,167	2,833	3,822	4,671	6,346	8,383	9,803	12,017	18,475	20,278	24,322
8	1,646	2,180	2,733	3,490	4,594	5,527	7,344	9,524	11,030	13,362	20,090	21,955	26,124
9	2,088	2,700	3,325	4,168	5,380	6,393	8,343	10,656	12,242	14,684	21,666	23,589	27,877
10	2,558	3,247	3,940	4,865	6,179	7,267	9,342	11,781	13,442	15,987	23,209	25,188	29,588
11	3,053	3,816	4,575	5,578	6,989	8,148	10,341	12,899	14,631	17,275	24,725	26,757	31,264
12	3,571	4,404	5,226	6,304	7,807	9,034	11,340	14,011	15,812	18,549	26,217	28,300	32,909
13	4,107	5,009	5,892	7,042	8,634	9,926	12,340	15,119	16,985	19,812	27,688	29,819	34,528
14	4,660	5,629	6,571	7,790	9,467	10,821	13,339	16,222	18,151	21,064	29,141	31,319	36,123
15	5,229	6,262	7,261	8,547	10,307	11,721	14,339	17,322	19,311	22,307	30,578	32,801	37,697
16	5,812	6,908	7,962	9,312	11,152	12,624	15,338	18,418	20,465	23,542	32,000	34,267	39,252
17	6,408	7,564	8,672	10,085	12,002	13,531	16,338	19,511	21,615	24,769	33,409	35,718	40,790
18	7,015	8,231	9,390	10,865	12,857	14,440	17,338	20,601	22,760	25,989	34,805	37,156	42,312
19	7,633	8,907	10,117	11,651	13,716	15,352	18,338	21,689	23,900	27,204	36,191	38,582	43,820
20	8,260	9,591	10,851	12,443	14,578	16,266	19,337	22,775	25,038	28,412	37,566	39,997	45,315
21	8,897	10,283	11,591	13,240	15,445	17,182	20,337	23,858	26,171	29,615	38,932	41,401	46,797
22	9,542	10,982	12,338	14,041	16,314	18,101	21,337	24,939	27,301	30,813	40,289	42,796	48,268
23	10,196	11,689	13,091	14,848	17,187	19,021	22,337	26,018	28,429	32,007	41,638	44,181	49,728
24	10,856	12,401	13,848	15,659	18,062	19,943	23,337	27,096	29,553	33,196	42,980	45,559	51,179
25	11,524	13,120	14,611	16,473	18,940	20,867	24,337	28,172	30,675	34,382	44,314	46,928	52,620
26	12,198	13,844	15,379	17,292	19,820	21,792	25,336	29,246	31,795	35,563	45,642	48,290	54,052
27	12,879	14,573	16,151	18,114	20,703	22,719	26,336	30,319	32,912	36,741	46,963	49,645	55,476
28	13,565	15,308	16,928	18,939	21,588	23,647	27,336	31,391	34,027	37,916	48,278	50,993	56,892
29	14,256	16,047	17,708	19,768	22,475	24,577	28,336	32,461	35,139	39,087	49,588	52,336	58,301
30	14,953	16,791	18,493	20,599	23,364	25,508	29,336	33,530	36,250	40,256	50,892	53,672	59,703
40	22,164	24,433	26,509	29,051	32,345	34,872	39,335	44,165	47,269	51,805	63,691	66,766	73,402
80	53,540	57,153	60,391	64,278	69,207	72,915	79,334	86,120	90,405	96,578	112,329	116,321	124,839
120	86,923	91,573	95,705	100,624	106,806	111,419	119,334	127,616	132,806	140,233	158,950	163,648	173,617

Table 8: Table de la loi de Student

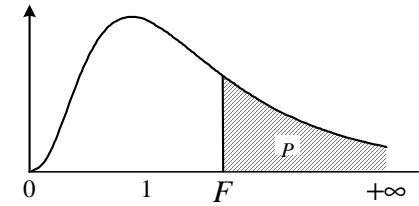
Valeurs de t ayant la probabilité P d'être dépassées en valeur absolue.



r	P= 0,90	P= 0,80	P= 0,70	P= 0,60	P= 0,50	P= 0,40	P= 0,30	P= 0,20	P= 0,10	P= 0,05	P= 0,01	P= 0,005
1	0,158	0,325	0,510	0,727	1,000	1,376	1,963	3,078	6,314	12,706	63,657	127,321
2	0,142	0,289	0,445	0,617	0,816	1,061	1,386	1,886	2,920	4,303	9,925	14,089
3	0,137	0,277	0,424	0,584	0,765	0,978	1,250	1,638	2,353	3,182	5,841	7,453
4	0,134	0,271	0,414	0,569	0,741	0,941	1,190	1,533	2,132	2,776	4,604	5,598
5	0,132	0,267	0,408	0,559	0,727	0,920	1,156	1,476	2,015	2,571	4,032	4,773
6	0,131	0,265	0,404	0,553	0,718	0,906	1,134	1,440	1,943	2,447	3,707	4,317
7	0,130	0,263	0,402	0,549	0,711	0,896	1,119	1,415	1,895	2,365	3,499	4,029
8	0,130	0,262	0,399	0,546	0,706	0,889	1,108	1,397	1,860	2,306	3,355	3,833
9	0,129	0,261	0,398	0,543	0,703	0,883	1,100	1,383	1,833	2,262	3,250	3,690
10	0,129	0,260	0,397	0,542	0,700	0,879	1,093	1,372	1,812	2,228	3,169	3,581
11	0,129	0,260	0,396	0,540	0,697	0,876	1,088	1,363	1,796	2,201	3,106	3,497
12	0,128	0,259	0,395	0,539	0,695	0,873	1,083	1,356	1,782	2,179	3,055	3,428
13	0,128	0,259	0,394	0,538	0,694	0,870	1,079	1,350	1,771	2,160	3,012	3,372
14	0,128	0,258	0,393	0,537	0,692	0,868	1,076	1,345	1,761	2,145	2,977	3,326
15	0,128	0,258	0,393	0,536	0,691	0,866	1,074	1,341	1,753	2,131	2,947	3,286
16	0,128	0,258	0,392	0,535	0,690	0,865	1,071	1,337	1,746	2,120	2,921	3,252
17	0,128	0,257	0,392	0,534	0,689	0,863	1,069	1,333	1,740	2,110	2,898	3,222
18	0,127	0,257	0,392	0,534	0,688	0,862	1,067	1,330	1,734	2,101	2,878	3,197
19	0,127	0,257	0,391	0,533	0,688	0,861	1,066	1,328	1,729	2,093	2,861	3,174
20	0,127	0,257	0,391	0,533	0,687	0,860	1,064	1,325	1,725	2,086	2,845	3,153
21	0,127	0,257	0,391	0,532	0,686	0,859	1,063	1,323	1,721	2,080	2,831	3,135
22	0,127	0,256	0,390	0,532	0,686	0,858	1,061	1,321	1,717	2,074	2,819	3,119
23	0,127	0,256	0,390	0,532	0,685	0,858	1,060	1,319	1,714	2,069	2,807	3,104
24	0,127	0,256	0,390	0,531	0,685	0,857	1,059	1,318	1,711	2,064	2,797	3,091
25	0,127	0,256	0,390	0,531	0,684	0,856	1,058	1,316	1,708	2,060	2,787	3,078
26	0,127	0,256	0,390	0,531	0,684	0,856	1,058	1,315	1,706	2,056	2,779	3,067
27	0,127	0,256	0,389	0,531	0,684	0,855	1,057	1,314	1,703	2,052	2,771	3,057
28	0,127	0,256	0,389	0,530	0,683	0,855	1,056	1,313	1,701	2,048	2,763	3,047
29	0,127	0,256	0,389	0,530	0,683	0,854	1,055	1,311	1,699	2,045	2,756	3,038
30	0,127	0,256	0,389	0,530	0,683	0,854	1,055	1,310	1,697	2,042	2,750	3,030
40	0,126	0,255	0,388	0,529	0,681	0,851	1,050	1,303	1,684	2,021	2,704	2,971
80	0,126	0,254	0,387	0,526	0,678	0,846	1,043	1,292	1,664	1,990	2,639	2,887
120	0,126	0,254	0,386	0,526	0,677	0,845	1,041	1,289	1,658	1,980	2,617	2,860
∞	0,126	0,253	0,385	0,524	0,675	0,842	1,036	1,282	1,645	1,960	2,576	2,808

Table 9: Table de la loi de Fisher-Snedecor

Valeurs de F ayant la probabilité P d'être dépassées en valeur absolue.



ν_2	$\nu_1 = 1$		$\nu_1 = 2$		$\nu_1 = 3$		$\nu_1 = 4$		$\nu_1 = 5$		$\nu_1 = 6$	
	P= 0,05	P= 0,01	P= 0,05	P= 0,01	P= 0,05	P= 0,01	P= 0,05	P= 0,01	P= 0,05	P= 0,01	P= 0,05	P= 0,01
1	161,448	4052,181	199,500	4999,500	215,707	5403,352	224,583	5624,583	230,162	5763,650	233,986	5858,986
2	18,513	98,503	19,000	99,000	19,164	99,166	19,247	99,249	19,296	99,299	19,330	99,333
3	10,128	34,116	9,552	30,817	9,277	29,457	9,117	28,710	9,013	28,237	8,941	27,911
4	7,709	21,198	6,944	18,000	6,591	16,694	6,388	15,977	6,256	15,522	6,163	15,207
5	6,608	16,258	5,786	13,274	5,409	12,060	5,192	11,392	5,050	10,967	4,950	10,672
6	5,987	13,745	5,143	10,925	4,757	9,780	4,534	9,148	4,387	8,746	4,284	8,466
7	5,591	12,246	4,737	9,547	4,347	8,451	4,120	7,847	3,972	7,460	3,866	7,191
8	5,318	11,259	4,459	8,649	4,066	7,591	3,838	7,006	3,687	6,632	3,581	6,371
9	5,117	10,561	4,256	8,022	3,863	6,992	3,633	6,422	3,482	6,057	3,374	5,802
10	4,965	10,044	4,103	7,559	3,708	6,552	3,478	5,994	3,326	5,636	3,217	5,386
11	4,844	9,646	3,982	7,206	3,587	6,217	3,357	5,668	3,204	5,316	3,095	5,069
12	4,747	9,330	3,885	6,927	3,490	5,953	3,259	5,412	3,106	5,064	2,996	4,821
13	4,667	9,074	3,806	6,701	3,411	5,739	3,179	5,205	3,025	4,862	2,915	4,620
14	4,600	8,862	3,739	6,515	3,344	5,564	3,112	5,035	2,958	4,695	2,848	4,456
15	4,543	8,683	3,682	6,359	3,287	5,417	3,056	4,893	2,901	4,556	2,790	4,318
16	4,494	8,531	3,634	6,226	3,239	5,292	3,007	4,773	2,852	4,437	2,741	4,202
17	4,451	8,400	3,592	6,112	3,197	5,185	2,965	4,669	2,810	4,336	2,699	4,102
18	4,414	8,285	3,555	6,013	3,160	5,092	2,928	4,579	2,773	4,248	2,661	4,015
19	4,381	8,185	3,522	5,926	3,127	5,010	2,895	4,500	2,740	4,171	2,628	3,939
20	4,351	8,096	3,493	5,849	3,098	4,938	2,866	4,431	2,711	4,103	2,599	3,871
21	4,325	8,017	3,467	5,780	3,072	4,874	2,840	4,369	2,685	4,042	2,573	3,812
22	4,301	7,945	3,443	5,719	3,049	4,817	2,817	4,313	2,661	3,988	2,549	3,758
23	4,279	7,881	3,422	5,664	3,028	4,765	2,796	4,264	2,640	3,939	2,528	3,710
24	4,260	7,823	3,403	5,614	3,009	4,718	2,776	4,218	2,621	3,895	2,508	3,667
25	4,242	7,770	3,385	5,568	2,991	4,675	2,759	4,177	2,603	3,855	2,490	3,627
26	4,225	7,721	3,369	5,526	2,975	4,637	2,743	4,140	2,587	3,818	2,474	3,591
27	4,210	7,677	3,354	5,488	2,960	4,601	2,728	4,106	2,572	3,785	2,459	3,558
28	4,196	7,636	3,340	5,453	2,947	4,568	2,714	4,074	2,558	3,754	2,445	3,528
29	4,183	7,598	3,328	5,420	2,934	4,538	2,701	4,045	2,545	3,725	2,432	3,499
30	4,171	7,562	3,316	5,390	2,922	4,510	2,690	4,018	2,534	3,699	2,421	3,473
40	4,085	7,314	3,232	5,179	2,839	4,313	2,606	3,828	2,449	3,514	2,336	3,291
80	3,960	6,963	3,111	4,881	2,719	4,036	2,486	3,563	2,329	3,255	2,214	3,036
120	3,920	6,851	3,072	4,787	2,680	3,949	2,447	3,480	2,290	3,174	2,175	2,956
∞	3,842	6,637	2,997	4,607	2,606	3,784	2,373	3,321	2,215	3,019	2,099	2,804

ν_2	$\nu_1 = 8$		$\nu_1 = 10$		$\nu_1 = 12$		$\nu_1 = 24$		$\nu_1 = 48$		$\nu_1 = \infty$	
	P= 0,05	P= 0,01	P= 0,05	P= 0,01	P= 0,05	P= 0,01	P= 0,05	P= 0,01	P= 0,05	P= 0,01	P= 0,05	P= 0,01
1	238,883	5981,070	241,882	6055,847	243,906	6106,321	249,052	6234,631	251,669	6299,892	254,314	6365,861
2	19,371	99,374	19,396	99,399	19,413	99,416	19,454	99,458	19,475	99,478	19,496	99,499
3	8,845	27,489	8,786	27,229	8,745	27,052	8,639	26,598	8,583	26,364	8,526	26,125
4	6,041	14,799	5,964	14,546	5,912	14,374	5,774	13,929	5,702	13,699	5,628	13,463
5	4,818	10,289	4,735	10,051	4,678	9,888	4,527	9,466	4,448	9,247	4,365	9,020
6	4,147	8,102	4,060	7,874	4,000	7,718	3,841	7,313	3,757	7,100	3,669	6,880
7	3,726	6,840	3,637	6,620	3,575	6,469	3,410	6,074	3,322	5,866	3,230	5,650
8	3,438	6,029	3,347	5,814	3,284	5,667	3,115	5,279	3,024	5,074	2,928	4,859
9	3,230	5,467	3,137	5,257	3,073	5,111	2,900	4,729	2,807	4,525	2,707	4,311
10	3,072	5,057	2,978	4,849	2,913	4,706	2,737	4,327	2,641	4,124	2,538	3,909
11	2,948	4,744	2,854	4,539	2,788	4,397	2,609	4,021	2,511	3,818	2,404	3,602
12	2,849	4,499	2,753	4,296	2,687	4,155	2,505	3,780	2,405	3,578	2,296	3,361
13	2,767	4,302	2,671	4,100	2,604	3,960	2,420	3,587	2,318	3,384	2,206	3,165
14	2,699	4,140	2,602	3,939	2,534	3,800	2,349	3,427	2,245	3,224	2,131	3,004
15	2,641	4,004	2,544	3,805	2,475	3,666	2,288	3,294	2,182	3,090	2,066	2,868
16	2,591	3,890	2,494	3,691	2,425	3,553	2,235	3,181	2,128	2,976	2,010	2,753
17	2,548	3,791	2,450	3,593	2,381	3,455	2,190	3,084	2,081	2,878	1,960	2,653
18	2,510	3,705	2,412	3,508	2,342	3,371	2,150	2,999	2,040	2,793	1,917	2,566
19	2,477	3,631	2,378	3,434	2,308	3,297	2,114	2,925	2,003	2,718	1,878	2,489
20	2,447	3,564	2,348	3,368	2,278	3,231	2,082	2,859	1,970	2,652	1,843	2,421
21	2,420	3,506	2,321	3,310	2,250	3,173	2,054	2,801	1,941	2,593	1,812	2,360
22	2,397	3,453	2,297	3,258	2,226	3,121	2,028	2,749	1,914	2,540	1,783	2,305
23	2,375	3,406	2,275	3,211	2,204	3,074	2,005	2,702	1,890	2,492	1,757	2,256
24	2,355	3,363	2,255	3,168	2,183	3,032	1,984	2,659	1,868	2,448	1,733	2,211
25	2,337	3,324	2,236	3,129	2,165	2,993	1,964	2,620	1,847	2,409	1,711	2,169
26	2,321	3,288	2,220	3,094	2,148	2,958	1,946	2,585	1,828	2,373	1,691	2,131
27	2,305	3,256	2,204	3,062	2,132	2,926	1,930	2,552	1,811	2,339	1,672	2,097
28	2,291	3,226	2,190	3,032	2,118	2,896	1,915	2,522	1,795	2,309	1,654	2,064
29	2,278	3,198	2,177	3,005	2,104	2,868	1,901	2,495	1,780	2,280	1,638	2,034
30	2,266	3,173	2,165	2,979	2,092	2,843	1,887	2,469	1,766	2,254	1,622	2,006
40	2,180	2,993	2,077	2,801	2,003	2,665	1,793	2,288	1,666	2,068	1,509	1,805
80	2,056	2,742	1,951	2,551	1,875	2,415	1,654	2,032	1,514	1,799	1,325	1,494
120	2,016	2,663	1,910	2,472	1,834	2,336	1,608	1,950	1,463	1,711	1,254	1,381
∞	1,939	2,513	1,832	2,323	1,753	2,187	1,518	1,793	1,359	1,537	1,000	1,000