TABELA 2 – DISTRIBUIÇÃO DE POISSON

A. Função probabilidade

$$f(x \mid \lambda) = P(X = x) = \frac{e^{-\lambda} \lambda^x}{x!}$$

$$F(x \mid \lambda) = P(X \le x) = \sum_{i=0}^{x} \frac{e^{-\lambda} \lambda^{i}}{i!}$$

					λ											λ					
x	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	x	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
0	.9048	.8187	.7408	.6703	.6065	.5488	.4966	.4493	.4066	.3679	0	.9048	.8187	.7408	.6703	.6065	.5488	.4966	.4493	.4066	.3679
1	.0905	.1637	.2222	.2681	.3033	.3293	.3476	.3595	.3659	.3679	1	.9953	.9825	.9631	.9384	.9098	.8781	.8442	.8088	.7725	.7358
2	.0045	.0164	.0333	.0536	.0758	.0988	.1217	.1438	.1647	.1839	2	.9998	.9989	.9964	.9921	.9856	.9769	.9659	.9526	.9371	.9197
3	.0002	.0011	.0033	.0072	.0126	.0198	.0284	.0383	.0494	.0613	3	1.0000	.9999	.9997	.9992	.9982	.9966	.9942	.9909	.9865	.9810
4	.0000	.0001	.0003	.0007	.0016	.0030	.0050	.0077	.0111	.0153	4	1.0000	1.0000	1.0000	.9999	.9998	.9996	.9992	.9986	.9977	.9963
5	.0000	.0000	.0000	.0001	.0002	.0004	.0007	.0012	.0020	.0031	5	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	.9999	.9998	.9997	.9994
6	.0000	.0000	.0000	.0000	.0000	.0000	.0001	.0002	.0003	.0005	6	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	.9999
7	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0001	7	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	1.1	1.2	1.2	1.4	1.5	1.6	1.7	1.0	1.0	2.0		1.1	1.2	1.2	1.4	1.5	1.6	1.7	1.0	1.0	2.0
<u> </u>	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	<u>X</u>	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
0	.3329	.3012	.2725	.2466	.2231	.2019	.1827	.1653	.1496	.1353	0	.3329	.3012	.2725	.2466	.2231	.2019	.1827	.1653	.1496	.1353
1	.3662	.3614	.3543	.3452	.3347	.3230	.3106	.2975	.2842	.2707	1	.6990	.6626	.6268	.5918	.5578	.5249	.4932	.4628	.4337	.4060
2	.2014	.2169	.2303	.2417	.2510	.2584	.2640	.2678	.2700	.2707	2	.9004	.8795	.8571	.8335	.8088	.7834	.7572	.7306 .8913	.7037	.6767
3	.0738	.0867	.0998	.1128	.1255	.1378	.1496	.1607	.1710	.1804	3	.9743	.9662	.9569	.9463	.9344	.9212	.9068		.8747	.8571
4	.0203	.0260	.0324	.0395	.0471	.0551	.0636	.0723	.0812	.0902	4	.9946	.9923	.9893	.9857	.9814	.9763	.9704	.9636	.9559	.9473
5	.0045	.0062	.0084	.0111	.0141	.0176	.0216	.0260	.0309	.0361	5	.9990	.9985	.9978	.9968	.9955	.9940	.9920	.9896	.9868	.9834
6	.0008	.0012	.0018	.0026	.0035	.0047	.0061	.0078	.0098	.0120	6	.9999	.9997	.9996	.9994	.9991	.9987	.9981	.9974	.9966	.9955
7	.0001	.0002	.0003	.0005	.0008	.0011	.0015	.0020	.0027	.0034	7	1.0000	1.0000	.9999	.9999	.9998	.9997	.9996	.9994	.9992	.9989
8	.0000	.0000	.0001	.0001	.0001	.0002	.0003	.0005	.0006	.0009	8	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	.9999	.9999	.9998	.9998
9	.0000	.0000	.0000	.0000	.0000	.0000	.0001	.0001	.0001	.0002	9	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	Ι											1									
X	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	X	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
0	.1225	.1108	.1003	.0907	.0821	.0743	.0672	.0608	.0550	.0498	0	.1225	.1108	.1003	.0907	.0821	.0743	.0672	.0608	.0550	.0498
1	.2572	.2438	.2306	.2177	.2052	.1931	.1815	.1703	.1596	.1494	1	.3796	.3546	.3309	.3084	.2873	.2674	.2487	.2311	.2146	.1991
2	.2700	.2681	.2652	.2613	.2565	.2510	.2450	.2384	.2314	.2240	2	.6496	.6227	.5960	.5697	.5438	.5184	.4936	.4695	.4460	.4232
3	.1890	.1966	.2033	.2090	.2138	.2176	.2205	.2225	.2237	.2240	3	.8386	.8194	.7993	.7787	.7576	.7360	.7141	.6919	.6696	.6472
4	.0992	.1082	.1169	.1254	.1336	.1414	.1488	.1557	.1622	.1680	4	.9379	.9275	.9162	.9041	.8912	.8774	.8629	.8477	.8318	.8153
5	.0417	.0476	.0538	.0602	.0668	.0735	.0804	.0872	.0940	.1008	5	.9796	.9751	.9700	.9643	.9580	.9510	.9433	.9349	.9258	.9161
6	.0146	.0174	.0206	.0241	.0278	.0319	.0362	.0407	.0455	.0504	6	.9941	.9925	.9906	.9884	.9858	.9828	.9794	.9756	.9713	.9665
7	.0044	.0055	.0068	.0083	.0099	.0118	.0139	.0163	.0188	.0216	7	.9985	.9980	.9974	.9967	.9958	.9947	.9934	.9919	.9901	.9881
8	.0011	.0015	.0019	.0025	.0031	.0038	.0047	.0057	.0068	.0081	8	.9997	.9995	.9994	.9991	.9989	.9985	.9981	.9976	.9969	.9962
9	.0003	.0004	.0005	.0007	.0009	.0011	.0014	.0018	.0022	.0027	9	.9999	.9999	.9999	.9998	.9997	.9996	.9995	.9993	.9991	.9989
10	.0001	.0001	.0001	.0002	.0002	.0003	.0004	.0005	.0006	.0008	10	1.0000	1.0000	1.0000	1.0000	.9999	.9999	.9999	.9998	.9998	.9997
11	.0000	.0000	.0000	.0000	.0000	.0001	.0001	.0001	.0002	.0002	11	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	.9999	.9999
12	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0001	12	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

TABELA 2 – DISTRIBUIÇÃO DE POISSON (Continuação)

											_											
X	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	_	X	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
0	.0450	.0408	.0369	.0334	.0302	.0273	.0247	.0224	.0202	.0183		0	.0450	.0408	.0369	.0334	.0302	.0273	.0247	.0224	.0202	.0183
1	.1397	.1304	.1217	.1135	.1057	.0984	.0915	.0850	.0789	.0733		1	.1847	.1712	.1586	.1468	.1359	.1257	.1162	.1074	.0992	.0916
2	.2165	.2087	.2008	.1929	.1850	.1771	.1692	.1615	.1539	.1465		2	.4012	.3799	.3594	.3397	.3208	.3027	.2854	.2689	.2531	.2381
3	.2237	.2226	.2209	.2186	.2158	.2125	.2087	.2046	.2001	.1954		3	.6248	.6025	.5803	.5584	.5366	.5152	.4942	.4735	.4532	.4335
4	.1733	.1781	.1823	.1858	.1888	.1912	.1931	.1944	.1951	.1954		4	.7982	.7806	.7626	.7442	.7254	.7064	.6872	.6678	.6484	.6288
5	.1075	.1140	.1203	.1264	.1322	.1377	.1429	.1477	.1522	.1563		5	.9057	.8946	.8829	.8705	.8576	.8441	.8301	.8156	.8006	.7851
6	.0555	.0608	.0662	.0716	.0771	.0826	.0881	.0936	.0989	.1042		6	.9612	.9554	.9490	.9421	.9347	.9267	.9182	.9091	.8995	.8893
7 8	.0246	.0278 .0111	.0312 .0129	.0348 .0148	.0385 .0169	.0425 .0191	.0466 .0215	.0508 .0241	.0551 .0269	.0595 .0298		7 8	.9858 .9953	.9832 .9943	.9802 .9931	.9769 .9917	.9733 .9901	.9692 .9883	.9648 .9863	.9599 .9840	.9546 .9815	.9489 .9786
9	.0095	.0040	.0129	.0056	.0169	.0191	.0213	.0102	.0209	.0298		9	.9933	.9943	.9931	.9917	.9967	.9883	.9863	.9840	.9931	.9780
			.0016	.0019	.0023	.0028	.0033	.0039	.0045	.0053		-	.9996	.9995	.9994	.9992	.9990	.9987	.9984	.9981	.9977	.9972
10 11	.0010	.0013 .0004	.0016	.0019	.0023	.0028	.0033	.0039	.0043	.0033		10 11	.9990	.9993	.9994	.9992	.9990	.9987 .9996	.9984	.9991	.9977	.9972
12	.0003	.0004	.0003	.0002	.0007	.0003	.0003	.0013	.0005	.0006		12	1.0000	1.0000	1.0000	.9999	.9999	.9999	.9999	.9998	.9998	.9997
13	.0000	.0000	.0000	.0000	.0001	.0001	.0001	.0001	.0002	.0002		13	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	.9999	.9999
14	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0001		14	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Х	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	_	X	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
0	.0166	.0150	.0136	.0123	.0111	.0101	.0091	.0082	.0074	.0067		0	.0166	.0150	.0136	.0123	.0111	.0101	.0091	.0082	.0074	.0067
1	.0679	.0630	.0583	.0540	.0500	.0462	.0427	.0395	.0365	.0337		1	.0845	.0780	.0719	.0663	.0611	.0563	.0518	.0477	.0439	.0404
2	.1393	.1323	.1254	.1188	.1125	.1063	.1005	.0948	.0894	.0842		2	.2238	.2102	.1974	.1851	.1736	.1626	.1523	.1425	.1333	.1247
3	.1904	.1852	.1798	.1743	.1687	.1631	.1574	.1517	.1460	.1404		3	.4142	.3954	.3772	.3594	.3423	.3257	.3097	.2942	.2793	.2650
4	.1951	.1944	.1933	.1917	.1898	.1875	.1849	.1820	.1789	.1755		4	.6093	.5898	.5704	.5512	.5321	.5132	.4946	.4763	.4582	.4405
5	.1600	.1633	.1662	.1687	.1708	.1725	.1738	.1747	.1753	.1755		5	.7693	.7531	.7367	.7199	.7029	.6858	.6684	.6510	.6335	.6160
6	.1093	.1143	.1191	.1237	.1281	.1323	.1362	.1398	.1432	.1462		6	.8786	.8675	.8558	.8436	.8311	.8180	.8046	.7908	.7767	.7622
7 8	.0640 .0328	.0686 .0360	.0732 .0393	.0778 .0428	.0824	.0869 .0500	.0914 .0537	.0959 .0575	.1002 .0614	.1044 .0653		7 8	.9427 .9755	.9361 .9721	.9290 .9683	.9214 .9642	.9134 .9597	.9049 .9549	.8960 .9497	.8867 .9442	.8769 .9382	.8666 .9319
9	.0328	.0168	.0393	.0209	.0232	.0255	.0281	.0373	.0334	.0363		9	.9905	.9889	.9871	.9851	.9829	.9805	.9778	.9749	.9382	.9682
10 11	.0061	.0071 .0027	.0081 .0032	.0092 .0037	.0104 .0043	.0118 .0049	.0132 .0056	.0147 .0064	.0164 .0073	.0181 .0082		10 11	.9966 .9989	.9959 .9986	.9952 .9983	.9943 .9980	.9933 .9976	.9922 .9971	.9910 .9966	.9896 .9960	.9880 .9953	.9863 .9945
12	.0023	.0027	.0032	.0013	.0043	.0019	.0022	.0026	.0073	.0032		12	.9997	.9996	.9995	.9993	.9992	.9990	.9988	.9986	.9983	.9980
13	.0002	.0003	.0004	.0005	.0006	.0007	.0008	.0009	.0011	.0013		13	.9999	.9999	.9998	.9998	.9997	.9997	.9996	.9995	.9994	.9993
14	.0001	.0001	.0001	.0001	.0002	.0002	.0003	.0003	.0004	.0005		14	1.0000	1.0000	1.0000	.9999	.9999	.9999	.9999	.9999	.9998	.9998
15	.0000	.0000	.0000	.0000	.0001	.0001	.0001	.0001	.0001	.0002	-	15	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
x	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	-	x	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0
-											-											
0	.0061	.0055 .0287	.0050 .0265	.0045 .0244	.0041 .0225	.0037 .0207	.0033 .0191	.0030 .0176	.0027 .0162	.0025 .0149		0	.0061 .0372	.0055 .0342	.0050 .0314	.0045 .0289	.0041 .0266	.0037 .0244	.0033 .0224	.0030 .0206	.0027 .0189	.0025 .0174
1 2	.0793	.0287	.0203	.0659	.0223	.0580	.0544	.0509	.0162	.0149		1 2	.0372	.1088	.1016	.0289	.0288	.0244	.0224	.0206	.0666	.0620
3	.1348	.1293	.1239	.1185	.1133	.1082	.1033	.0985	.0938	.0892		3	.2513	.2381	.2254	.2133	.2017	.1906	.1800	.1700	.1604	.1512
4	.1719	.1681	.1641	.1600	.1558	.1515	.1472	.1428	.1383	.1339		4	.4231	.4061	.3895	.3733	.3575	.3422	.3272	.3127	.2987	.2851
	•																					

TABELA 2 – DISTRIBUIÇÃO DE POISSON (Continuação)

	1									1											1
<u> </u>	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	X	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0
5	.1753	.1748	.1740	.1728	.1714	.1697	.1678	.1656	.1632	.1606	5	.5984	.5809	.5635	.5461	.5289	.5119	.4950	.4783	.4619	.4457
6 7	.1490	.1515	.1537	.1555	.1571 .1234	.1584	.1594	.1601	.1605	.1606	6	.7474	.7324 .8449	.7171 .8335	.7017 .8217	.6860	.6703 .7970	.6544	.6384	.6224 .7576	.6063
8	.1086 .0692	.1125 .0731	.1163 .0771	.1200 .0810	.0849	.1267 .0887	.1298 .0925	.1326 .0962	.1353 .0998	.1377 .1033	8	.8560 .9252	.9181	.8333 .9106	.9027	.8095 .8944	.8857	.7841 .8766	.7710 .8672	.7576	.7440 .8472
9	.0392	.0423	.0454	.0486	.0519	.0552	.0586	.0620	.0654	.0688	9	.9644	.9603	.9559	.9512	.9462	.9409	.9352	.9292	.9228	.9161
10	.0200	.0220	.0241	.0262	.0285	.0309	.0334	.0359	.0386	.0413	10	.9844	.9823	.9800	.9775	.9747	.9718	.9686	.9651	.9614	.9574
11	.0093	.0104	.0116	.0129	.0143	.0157	.0173	.0190	.0207	.0225	11	.9937	.9927	.9916	.9904	.9890	.9875	.9859	.9841	.9821	.9799
12	.0039	.0045	.0051	.0058	.0065	.0073	.0082	.0092	.0102	.0113	12	.9976	.9972	.9967	.9962	.9955	.9949	.9941	.9932	.9922	.9912
13	.0015	.0018	.0021	.0024	.0028	.0032	.0036	.0041	.0046	.0052	13	.9992	.9990	.9988	.9986	.9983	.9980	.9977	.9973	.9969	.9964
14	.0006	.0007	.0008	.0009	.0011	.0013	.0015	.0017	.0019	.0022	14	.9997	.9997	.9996	.9995	.9994	.9993	.9991	.9990	.9988	.9986
15	.0002	.0002	.0003	.0003	.0004	.0005	.0006	.0007	.0008	.0009	15	.9999	.9999	.9999	.9998	.9998	.9998	.9997	.9996	.9996	.9995
16 17	.0001	.0001	.0001	.0001	.0001	.0002 .0001	.0002 .0001	.0002 .0001	.0003	.0003 .0001	16 17	1.0000 1.0000	1.0000 1.0000	1.0000 1.0000	.9999 1.0000	.9999 1.0000	.9999 1.0000	.9999 1.0000	.9999 1.0000	.9999 1.0000	.9998 1.0000
	.0000	.0000	.0000	.0000	.0000	.0001	.0001	.0001	.0001	.0001	17	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
x	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	x	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0
0	.0022	.0020	.0018	.0017	.0015	.0014	.0012	.0011	.0010	.0009	0	.0022	.0020	.0018	.0017	.0015	.0014	.0012	.0011	.0010	.0009
1	.0137	.0126	.0116	.0106	.0098	.0090	.0082	.0076	.0070	.0064	1	.0159	.0146	.0134	.0123	.0113	.0103	.0095	.0087	.0080	.0073
2	.0417	.0390	.0364	.0340	.0318	.0296	.0276	.0258	.0240	.0223	2	.0577	.0536	.0498	.0463	.0430	.0400	.0371	.0344	.0320	.0296
3	.0848	.0806	.0765	.0726	.0688	.0652	.0617	.0584	.0552	.0521	3	.1425	.1342	.1264	.1189	.1118	.1052	.0988	.0928	.0871	.0818
4	.1294	.1249	.1205	.1162	.1118	.1076	.1034	.0992	.0952	.0912	4	.2719	.2592	.2469	.2351	.2237	.2127	.2022	.1920	.1823	.1730
5	.1579	.1549	.1519	.1487	.1454	.1420	.1385	.1349	.1314	.1277	5	.4298	.4141	.3988	.3837	.3690	.3547	.3406	.3270	.3137	.3007
6 7	.1605 .1399	.1601 .1418	.1595 .1435	.1586 .1450	.1575 .1462	.1562 .1472	.1546 .1480	.1529 .1486	.1511 .1489	.1490 .1490	6 7	.5902 .7301	.5742 .7160	.5582 .7017	.5423 .6873	.5265 .6728	.5108 .6581	.4953 .6433	.4799 .6285	.4647 .6136	.4497 .5987
8	.1066	.1099	.1130	.1160	.1188	.1215	.1240	.1263	.1284	.1304	8	.8367	.8259	.8148	.8033	.7916	.7796	.7673	.7548	.7420	.7291
9	.0723	.0757	.0791	.0825	.0858	.0891	.0923	.0954	.0985	.1014	9	.9090	.9016	.8939	.8858	.8774	.8686	.8596	.8502	.8405	.8305
10	.0441	.0469	.0498	.0528	.0558	.0588	.0618	.0649	.0679	.0710	10	.9531	.9486	.9437	.9386	.9332	.9274	.9214	.9151	.9084	.9015
11	.0244	.0265	.0285	.0307	.0330	.0353	.0377	.0401	.0426	.0452	11	.9776	.9750	.9723	.9693	.9661	.9627	.9591	.9552	.9510	.9467
12	.0124	.0137	.0150	.0164	.0179	.0194	.0210	.0227	.0245	.0263	12	.9900	.9887	.9873	.9857	.9840	.9821	.9801	.9779	.9755	.9730
13	.0058	.0065	.0073	.0081	.0089	.0099	.0108	.0119	.0130	.0142	13	.9958	.9952	.9945	.9937	.9929	.9920	.9909	.9898	.9885	.9872
14	.0025	.0029	.0033	.0037	.0041	.0046	.0052	.0058	.0064	.0071	14	.9984	.9981	.9978	.9974	.9970	.9966	.9961	.9956	.9950	.9943
15	.0010	.0012	.0014	.0016	.0018	.0020	.0023	.0026	.0029	.0033	15	.9994	.9993	.9992 .9997	.9990	.9988	.9986	.9984	.9982	.9979	.9976
16 17	.0004	.0005 .0002	.0005	.0006 .0002	.0007 .0003	.0008	.0010 .0004	.0011 .0004	.0013	.0014 .0006	16 17	.9998 .9999	.9997 .9999	.9997 .9999	.9996 .9999	.9996 .9998	.9995 .9998	.9994 .9998	.9993 .9997	.9992 .9997	.9990 .9996
18	.0000	.0002	.0002	.0002	.0003	.0003	.0001	.0004	.0003	.0002	18	1.0000	1.0000	1.0000	1.0000	.9999	.9999	.9999	.9999	.9999	.9999
19	.0000	.0000	.0000	.0000	.0000	.0000	.0001	.0001	.0001	.0001	19	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
x	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	X	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0
0	.0008	.0007	.0007	.0006	.0006	.0005	.0005	.0004	.0004	.0003	0	.0008	.0007	.0007	.0006	.0006	.0005	.0005	.0004	.0004	.0003
1	.0059	.0054	.0049	.0045	.0041	.0038	.0035	.0032	.0029	.0027	1	.0067	.0061	.0056	.0051	.0047	.0043	.0039	.0036	.0033	.0030
2	.0208	.0194	.0180	.0167	.0156	.0145	.0134	.0125	.0116	.0107	2	.0275	.0255	.0236	.0219	.0203	.0188	.0174	.0161	.0149	.0138

TABELA 2 – DISTRIBUIÇÃO DE POISSON (Continuação)

x	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	X	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0
3	.0492	.0464	.0438	.0413	.0389	.0366	.0345	.0324	.0305	.0286	3	.0767	.0719	.0674	.0632	.0591	.0554	.0518	.0485	.0453	.0424
4	.0492	.0464	.0438	.0764	.0389	.0696	.0663	.0632	.0602	.0286	4	.1641	.1555	.1473	.1395	.1321	.1249	.1181	.0483	.1055	.0424
5	.1241	.1204	.1167	.1130	.1094	.1057	.1021	.0986	.0951	.0916	5	.2881	.2759	.2640	.2526	.2414	.2307	.2203	.2103	.2006	.1912
6	.1468	.1445	.1420	.1394	.1367	.1339	.1311	.1282	.1252	.1221	6	.4349	.4204	.4060	.3920	.3782	.3646	.3514	.3384	.3257	.3134
7	.1489	.1486	.1481	.1474	.1465	.1454	.1442	.1428	.1413	.1396	7	.5838	.5689	.5541	.5393	.5246	.5100	.4956	.4812	.4670	.4530
8 9	.1321 .1042	.1337 .1070	.1351 .1096	.1363 .1121	.1373 .1144	.1381 .1167	.1388 .1187	.1392 .1207	.1395 .1224	.1396 .1241	8 9	.7160 .8202	.7027 .8096	.6892 .7988	.6757	.6620 .7764	.6482 .7649	.6343 .7531	.6204 .7411	.6065 .7290	.5925 .7166
															.7877						
10 11	.0740 .0478	.0770 .0504	.0800 .0531	.0829 .0558	.0858 .0585	.0887 .0613	.0914 .0640	.0941 .0667	.0967 .0695	.0993 .0722	10 11	.8942 .9420	.8867 .9371	.8788 .9319	.8707 .9265	.8622 .9208	.8535 .9148	.8445 .9085	.8352 .9020	.8257 .8952	.8159 .8881
12	.0478	.0304	.0323	.0338	.0366	.0388	.0411	.0434	.0093	.0722	12	.9703	.9673	.9642	.9609	.9208	.9536	.9496	.9454	.9409	.9362
13	.0154	.0168	.0181	.0196	.0211	.0227	.0243	.0260	.0278	.0296	13	.9857	.9841	.9824	.9805	.9784	.9762	.9739	.9714	.9687	.9658
14	.0078	.0086	.0095	.0104	.0113	.0123	.0134	.0145	.0157	.0169	14	.9935	.9927	.9918	.9908	.9897	.9886	.9873	.9859	.9844	.9827
15	.0037	.0041	.0046	.0051	.0057	.0062	.0069	.0075	.0083	.0090	15	.9972	.9969	.9964	.9959	.9954	.9948	.9941	.9934	.9926	.9918
16	.0016	.0019	.0021	.0024	.0026	.0030	.0033	.0037	.0041	.0045	16	.9989	.9987	.9985	.9983	.9980	.9978	.9974	.9971	.9967	.9963
17	.0007	.0008	.0009	.0010	.0012	.0013	.0015	.0017	.0019	.0021	17	.9996	.9995	.9994	.9993	.9992	.9991	.9989	.9988	.9986	.9984
18 19	.0003	.0003	.0004 .0001	.0004	.0005 .0002	.0006 .0002	.0006 .0003	.0007	.0008	.0009 .0004	18 19	.9998 .9999	.9998 .9999	.9998 .9999	.9997 .9999	.9997 .9999	.9996 .9999	.9996 .9998	.9995 .9998	.9994 .9998	.9993 .9997
20 21	.0000	.0000	.0001	.0001	.0001	.0001	.0001	.0001	.0001	.0002 .0001	20 21	1.0000 1.0000	1.0000 1.0000	1.0000 1.0000	1.0000 1.0000	1.0000 1.0000	1.0000 1.0000	.9999 1.0000	.9999 1.0000	.9999 1.0000	.9999 1.0000
	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0001	.0001		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
X	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	x	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0
x 0	8.1 .0003	.0003	.0002	.0002	.0002	.0002	.0002	.0002	.0001	9.0 .0001	x 0	.0003	.0003	8.3 .0002	.0002	.0002	8.6 .0002	.0002	8.8 .0002	.0001	9.0 .0001
0	.0003 .0025	.0003 .0023	.0002 .0021	.0002 .0019	.0002 .0017	.0002 .0016	.0002 .0014	.0002 .0013	.0001 .0012	.0001	0	.0003 .0028	.0003 .0025	.0002 .0023	.0002 .0021	.0002 .0019	.0002 .0018	.0002 .0016	.0002 .0015	.0001 .0014	.0001
0 1 2	.0003 .0025 .0100	.0003 .0023 .0092	.0002 .0021 .0086	.0002 .0019 .0079	.0002 .0017 .0074	.0002 .0016 .0068	.0002 .0014 .0063	.0002 .0013 .0058	.0001 .0012 .0054	.0001 .0011 .0050	0 1 2	.0003 .0028 .0127	.0003 .0025 .0118	.0002 .0023 .0109	.0002 .0021 .0100	.0002 .0019 .0093	.0002 .0018 .0086	.0002 .0016 .0079	.0002 .0015 .0073	.0001 .0014 .0068	.0001 .0012 .0062
0 1 2 3	.0003 .0025 .0100 .0269	.0003 .0023 .0092 .0252	.0002 .0021 .0086 .0237	.0002 .0019 .0079 .0222	.0002 .0017 .0074 .0208	.0002 .0016 .0068 .0195	.0002 .0014 .0063 .0183	.0002 .0013 .0058 .0171	.0001 .0012 .0054 .0160	.0001 .0011 .0050 .0150	0 1 2 3	.0003 .0028 .0127 .0396	.0003 .0025 .0118 .0370	.0002 .0023 .0109 .0346	.0002 .0021 .0100 .0323	.0002 .0019 .0093 .0301	.0002 .0018 .0086 .0281	.0002 .0016 .0079 .0262	.0002 .0015 .0073 .0244	.0001 .0014 .0068 .0228	.0001 .0012 .0062 .0212
0 1 2 3 4	.0003 .0025 .0100 .0269 .0544	.0003 .0023 .0092 .0252 .0517	.0002 .0021 .0086 .0237 .0491	.0002 .0019 .0079 .0222 .0466	.0002 .0017 .0074 .0208 .0443	.0002 .0016 .0068 .0195 .0420	.0002 .0014 .0063 .0183 .0398	.0002 .0013 .0058 .0171 .0377	.0001 .0012 .0054 .0160 .0357	.0001 .0011 .0050 .0150 .0337	0 1 2 3 4	.0003 .0028 .0127 .0396 .0940	.0003 .0025 .0118 .0370 .0887	.0002 .0023 .0109 .0346 .0837	.0002 .0021 .0100 .0323 .0789	.0002 .0019 .0093 .0301 .0744	.0002 .0018 .0086 .0281 .0701	.0002 .0016 .0079 .0262 .0660	.0002 .0015 .0073 .0244 .0621	.0001 .0014 .0068 .0228 .0584	.0001 .0012 .0062 .0212 .0550
0 1 2 3 4 5	.0003 .0025 .0100 .0269 .0544 .0882	.0003 .0023 .0092 .0252 .0517	.0002 .0021 .0086 .0237 .0491	.0002 .0019 .0079 .0222 .0466	.0002 .0017 .0074 .0208 .0443	.0002 .0016 .0068 .0195 .0420	.0002 .0014 .0063 .0183 .0398	.0002 .0013 .0058 .0171 .0377	.0001 .0012 .0054 .0160 .0357	.0001 .0011 .0050 .0150 .0337	0 1 2 3 4 5	.0003 .0028 .0127 .0396 .0940	.0003 .0025 .0118 .0370 .0887	.0002 .0023 .0109 .0346 .0837	.0002 .0021 .0100 .0323 .0789	.0002 .0019 .0093 .0301 .0744	.0002 .0018 .0086 .0281 .0701	.0002 .0016 .0079 .0262 .0660	.0002 .0015 .0073 .0244 .0621	.0001 .0014 .0068 .0228 .0584	.0001 .0012 .0062 .0212 .0550
0 1 2 3 4	.0003 .0025 .0100 .0269 .0544 .0882 .1191	.0003 .0023 .0092 .0252 .0517 .0849	.0002 .0021 .0086 .0237 .0491 .0816 .1128	.0002 .0019 .0079 .0222 .0466 .0784 .1097	.0002 .0017 .0074 .0208 .0443 .0752 .1066	.0002 .0016 .0068 .0195 .0420 .0722 .1034	.0002 .0014 .0063 .0183 .0398 .0692 .1003	.0002 .0013 .0058 .0171 .0377 .0663	.0001 .0012 .0054 .0160 .0357 .0635	.0001 .0011 .0050 .0150 .0337 .0607	0 1 2 3 4 5 6	.0003 .0028 .0127 .0396 .0940 .1822 .3013	.0003 .0025 .0118 .0370 .0887 .1736 .2896	.0002 .0023 .0109 .0346 .0837 .1653 .2781	.0002 .0021 .0100 .0323 .0789 .1573 .2670	.0002 .0019 .0093 .0301 .0744 .1496 .2562	.0002 .0018 .0086 .0281 .0701 .1422 .2457	.0002 .0016 .0079 .0262 .0660 .1352 .2355	.0002 .0015 .0073 .0244 .0621 .1284 .2256	.0001 .0014 .0068 .0228 .0584 .1219 .2160	.0001 .0012 .0062 .0212 .0550 .1157 .2068
0 1 2 3 4 5 6	.0003 .0025 .0100 .0269 .0544 .0882	.0003 .0023 .0092 .0252 .0517	.0002 .0021 .0086 .0237 .0491	.0002 .0019 .0079 .0222 .0466	.0002 .0017 .0074 .0208 .0443	.0002 .0016 .0068 .0195 .0420	.0002 .0014 .0063 .0183 .0398	.0002 .0013 .0058 .0171 .0377	.0001 .0012 .0054 .0160 .0357	.0001 .0011 .0050 .0150 .0337	0 1 2 3 4 5	.0003 .0028 .0127 .0396 .0940	.0003 .0025 .0118 .0370 .0887	.0002 .0023 .0109 .0346 .0837	.0002 .0021 .0100 .0323 .0789	.0002 .0019 .0093 .0301 .0744	.0002 .0018 .0086 .0281 .0701	.0002 .0016 .0079 .0262 .0660	.0002 .0015 .0073 .0244 .0621	.0001 .0014 .0068 .0228 .0584	.0001 .0012 .0062 .0212 .0550
0 1 2 3 4 5 6 7	.0003 .0025 .0100 .0269 .0544 .0882 .1191	.0003 .0023 .0092 .0252 .0517 .0849 .1160	.0002 .0021 .0086 .0237 .0491 .0816 .1128	.0002 .0019 .0079 .0222 .0466 .0784 .1097	.0002 .0017 .0074 .0208 .0443 .0752 .1066 .1294	.0002 .0016 .0068 .0195 .0420 .0722 .1034 .1271	.0002 .0014 .0063 .0183 .0398 .0692 .1003 .1247	.0002 .0013 .0058 .0171 .0377 .0663 .0972	.0001 .0012 .0054 .0160 .0357 .0635 .0941	.0001 .0011 .0050 .0150 .0337 .0607 .0911	0 1 2 3 4 5 6 7	.0003 .0028 .0127 .0396 .0940 .1822 .3013 .4391	.0003 .0025 .0118 .0370 .0887 .1736 .2896 .4254	.0002 .0023 .0109 .0346 .0837 .1653 .2781	.0002 .0021 .0100 .0323 .0789 .1573 .2670 .3987	.0002 .0019 .0093 .0301 .0744 .1496 .2562 .3856	.0002 .0018 .0086 .0281 .0701 .1422 .2457 .3728	.0002 .0016 .0079 .0262 .0660 .1352 .2355 .3602	.0002 .0015 .0073 .0244 .0621 .1284 .2256	.0001 .0014 .0068 .0228 .0584 .1219 .2160	.0001 .0012 .0062 .0212 .0550 .1157 .2068 .3239
0 1 2 3 4 5 6 7 8	.0003 .0025 .0100 .0269 .0544 .0882 .1191 .1378 .1395	.0003 .0023 .0092 .0252 .0517 .0849 .1160 .1358	.0002 .0021 .0086 .0237 .0491 .0816 .1128 .1338	.0002 .0019 .0079 .0222 .0466 .0784 .1097 .1317	.0002 .0017 .0074 .0208 .0443 .0752 .1066 .1294	.0002 .0016 .0068 .0195 .0420 .0722 .1034 .1271 .1366 .1306	.0002 .0014 .0063 .0183 .0398 .0692 .1003 .1247 .1356 .1311	.0002 .0013 .0058 .0171 .0377 .0663 .0972 .1222 .1344	.0001 .0012 .0054 .0160 .0357 .0635 .0941 .1197 .1332	.0001 .0011 .0050 .0150 .0337 .0607 .0911 .1171	0 1 2 3 4 5 6 7 8	.0003 .0028 .0127 .0396 .0940 .1822 .3013 .4391 .5786	.0003 .0025 .0118 .0370 .0887 .1736 .2896 .4254	.0002 .0023 .0109 .0346 .0837 .1653 .2781 .4119	.0002 .0021 .0100 .0323 .0789 .1573 .2670 .3987 .5369 .6659	.0002 .0019 .0093 .0301 .0744 .1496 .2562 .3856	.0002 .0018 .0086 .0281 .0701 .1422 .2457 .3728 .5094 .6400	.0002 .0016 .0079 .0262 .0660 .1352 .2355 .3602 .4958	.0002 .0015 .0073 .0244 .0621 .1284 .2256 .3478 .4823	.0001 .0014 .0068 .0228 .0584 .1219 .2160 .3357 .4689 .6006	.0001 .0012 .0062 .0212 .0550 .1157 .2068 .3239 .4557
0 1 2 3 4 5 6 7 8 9	.0003 .0025 .0100 .0269 .0544 .0882 .1191 .1378 .1395 .1256	.0003 .0023 .0092 .0252 .0517 .0849 .1160 .1358 .1392 .1269	.0002 .0021 .0086 .0237 .0491 .0816 .1128 .1338 .1388 .1280	.0002 .0019 .0079 .0222 .0466 .0784 .1097 .1317 .1382 .1290	.0002 .0017 .0074 .0208 .0443 .0752 .1066 .1294 .1375 .1299 .1104	.0002 .0016 .0068 .0195 .0420 .0722 .1034 .1271 .1366 .1306	.0002 .0014 .0063 .0183 .0398 .0692 .1003 .1247 .1356 .1311 .1140	.0002 .0013 .0058 .0171 .0377 .0663 .0972 .1222 .1344 .1315 .1157	.0001 .0012 .0054 .0160 .0357 .0635 .0941 .1197 .1332 .1317 .1172	.0001 .0011 .0050 .0150 .0337 .0607 .0911 .1171 .1318 .1318	0 1 2 3 4 5 6 7 8 9	.0003 .0028 .0127 .0396 .0940 .1822 .3013 .4391 .5786 .7041 .8058	.0003 .0025 .0118 .0370 .0887 .1736 .2896 .4254 .5647 .6915	.0002 .0023 .0109 .0346 .0837 .1653 .2781 .4119 .5507 .6788 .7850	.0002 .0021 .0100 .0323 .0789 .1573 .2670 .3987 .5369 .6659 .7743	.0002 .0019 .0093 .0301 .0744 .1496 .2562 .3856 .5231 .6530 .7634 .8487	.0002 .0018 .0086 .0281 .0701 .1422 .2457 .3728 .5094 .6400 .7522 .8400	.0002 .0016 .0079 .0262 .0660 .1352 .2355 .3602 .4958 .6269 .7409	.0002 .0015 .0073 .0244 .0621 .1284 .2256 .3478 .4823 .6137 .7294	.0001 .0014 .0068 .0228 .0584 .1219 .2160 .3357 .4689 .6006 .7178 .8126	.0001 .0012 .0062 .0212 .0550 .1157 .2068 .3239 .4557 .5874 .7060
0 1 2 3 4 5 6 7 8 9	.0003 .0025 .0100 .0269 .0544 .0882 .1191 .1378 .1395 .1256 .1017 .0749 .0505	.0003 .0023 .0092 .0252 .0517 .0849 .1160 .1358 .1392 .1269 .1040 .0776 .0530	.0002 .0021 .0086 .0237 .0491 .0816 .1128 .1338 .1388 .1280 .1063 .0802	.0002 .0019 .0079 .0222 .0466 .0784 .1097 .1317 .1382 .1290 .1084 .0828 .0579	.0002 .0017 .0074 .0208 .0443 .0752 .1066 .1294 .1375 .1299 .1104 .0853 .0604	.0002 .0016 .0068 .0195 .0420 .0722 .1034 .1271 .1366 .1306 .1123 .0878	.0002 .0014 .0063 .0183 .0398 .0692 .1003 .1247 .1356 .1311 .1140 .0902	.0002 .0013 .0058 .0171 .0377 .0663 .0972 .1222 .1344 .1315 .1157 .0925 .0679	.0001 .0012 .0054 .0160 .0357 .0635 .0941 .1197 .1332 .1317 .1172 .0948 .0703	.0001 .0011 .0050 .0150 .0337 .0607 .0911 .1171 .1318 .1318	0 1 2 3 4 5 6 7 8 9	.0003 .0028 .0127 .0396 .0940 .1822 .3013 .4391 .5786 .7041 .8058 .8807 .9313	.0003 .0025 .0118 .0370 .0887 .1736 .2896 .4254 .5647 .6915 .7955 .8731	.0002 .0023 .0109 .0346 .0837 .1653 .2781 .4119 .5507 .6788 .7850 .8652 .9207	.0002 .0021 .0100 .0323 .0789 .1573 .2670 .3987 .5369 .6659 .7743 .8571 .9150	.0002 .0019 .0093 .0301 .0744 .1496 .2562 .3856 .5231 .6530 .7634 .8487 .9091	.0002 .0018 .0086 .0281 .0701 .1422 .2457 .3728 .5094 .6400 .7522 .8400 .9029	.0002 .0016 .0079 .0262 .0660 .1352 .2355 .3602 .4958 .6269 .7409 .8311	.0002 .0015 .0073 .0244 .0621 .1284 .2256 .3478 .4823 .6137 .7294 .8220 .8898	.0001 .0014 .0068 .0228 .0584 .1219 .2160 .3357 .4689 .6006 .7178 .8126 .8829	.0001 .0012 .0062 .0212 .0550 .1157 .2068 .3239 .4557 .5874 .7060 .8030 .8758
0 1 2 3 4 5 6 7 8 9 10 11 12 13	.0003 .0025 .0100 .0269 .0544 .0882 .1191 .1378 .1395 .1256 .1017 .0749 .0505	.0003 .0023 .0092 .0252 .0517 .0849 .1160 .1358 .1392 .1269 .0776 .0530 .0334	.0002 .0021 .0086 .0237 .0491 .0816 .1128 .1338 .1280 .1063 .0802 .0555	.0002 .0019 .0079 .0222 .0466 .0784 .1097 .1317 .1382 .1290 .1084 .0828 .0579 .0374	.0002 .0017 .0074 .0208 .0443 .0752 .1066 .1294 .1375 .1299 .1104 .0853 .0604 .0395	.0002 .0016 .0068 .0195 .0420 .0722 .1034 .1271 .1366 .1306 .1123 .0878 .0629	.0002 .0014 .0063 .0183 .0398 .0692 .1003 .1247 .1356 .1311 .1140 .0902 .0654	.0002 .0013 .0058 .0171 .0377 .0663 .0972 .1222 .1344 .1315 .1157 .0925 .0679 .0459	.0001 .0012 .0054 .0160 .0357 .0635 .0941 .1197 .1332 .1317 .1172 .0948 .0703	.0001 .0011 .0050 .0150 .0337 .0607 .0911 .1171 .1318 .1318 .1186 .0970 .0728	0 1 2 3 4 5 6 7 8 9 10 11 12 13	.0003 .0028 .0127 .0396 .0940 .1822 .3013 .4391 .5786 .7041 .8058 .8807 .9313	.0003 .0025 .0118 .0370 .0887 .1736 .2896 .4254 .5647 .6915 .7955 .8731 .9261	.0002 .0023 .0109 .0346 .0837 .1653 .2781 .4119 .5507 .6788 .7850 .8652 .9207	.0002 .0021 .0100 .0323 .0789 .1573 .2670 .3987 .5369 .6659 .7743 .8571 .9150	.0002 .0019 .0093 .0301 .0744 .1496 .2562 .3856 .5231 .6530 .7634 .8487 .9091	.0002 .0018 .0086 .0281 .0701 .1422 .2457 .3728 .5094 .6400 .7522 .8400 .9029 .9445	.0002 .0016 .0079 .0262 .0660 .1352 .2355 .3602 .4958 .6269 .7409 .8311 .8965 .9403	.0002 .0015 .0073 .0244 .0621 .1284 .2256 .3478 .4823 .6137 .7294 .8220 .8898 .9358	.0001 .0014 .0068 .0228 .0584 .1219 .2160 .3357 .4689 .6006 .7178 .8126 .8829 .9311	.0001 .0012 .0062 .0212 .0550 .1157 .2068 .3239 .4557 .5874 .7060 .8030 .8758 .9261
0 1 2 3 4 5 6 7 8 9 10 11 12 13	.0003 .0025 .0100 .0269 .0544 .0882 .1191 .1378 .1395 .1256 .1017 .0749 .0505 .0315	.0003 .0023 .0092 .0252 .0517 .0849 .1160 .1358 .1392 .1269 .1040 .0776 .0530 .0334 .0196	.0002 .0021 .0086 .0237 .0491 .0816 .1128 .1338 .1388 .1280 .1063 .0802 .0555 .0354	.0002 .0019 .0079 .0222 .0466 .0784 .1097 .1317 .1382 .1290 .1084 .0828 .0579 .0374	.0002 .0017 .0074 .0208 .0443 .0752 .1066 .1294 .1375 .1299 .1104 .0853 .0604 .0395 .0240	.0002 .0016 .0068 .0195 .0420 .0722 .1034 .1271 .1366 .1306 .1123 .0878 .0629 .0416	.0002 .0014 .0063 .0183 .0398 .0692 .1003 .1247 .1356 .1311 .1140 .0902 .0654 .0438	.0002 .0013 .0058 .0171 .0377 .0663 .0972 .1222 .1344 .1315 .1157 .0925 .0679 .0459	.0001 .0012 .0054 .0160 .0357 .0635 .0941 .1197 .1332 .1317 .1172 .0948 .0703 .0481	.0001 .0011 .0050 .0150 .0337 .0607 .0911 .1171 .1318 .1318 .1186 .0970 .0728 .0504 .0324	0 1 2 3 4 5 6 7 8 9 10 11 12 13	.0003 .0028 .0127 .0396 .0940 .1822 .3013 .4391 .5786 .7041 .8058 .8807 .9313 .9628	.0003 .0025 .0118 .0370 .0887 .1736 .2896 .4254 .5647 .6915 .7955 .8731 .9261 .9595	.0002 .0023 .0109 .0346 .0837 .1653 .2781 .4119 .5507 .6788 .7850 .8652 .9207 .9561	.0002 .0021 .0100 .0323 .0789 .1573 .2670 .3987 .5369 .6659 .7743 .8571 .9150 .9524	.0002 .0019 .0093 .0301 .0744 .1496 .2562 .3856 .5231 .6530 .7634 .8487 .9091 .9486	.0002 .0018 .0086 .0281 .0701 .1422 .2457 .3728 .5094 .6400 .7522 .8400 .9029 .9445 .9701	.0002 .0016 .0079 .0262 .0660 .1352 .2355 .3602 .4958 .6269 .7409 .8311 .8965 .9403	.0002 .0015 .0073 .0244 .0621 .1284 .2256 .3478 .4823 .6137 .7294 .8220 .8898 .9358	.0001 .0014 .0068 .0228 .0584 .1219 .2160 .3357 .4689 .6006 .7178 .8126 .8829 .9311 .9617	.0001 .0012 .0062 .0212 .0550 .1157 .2068 .3239 .4557 .5874 .7060 .8030 .8758 .9261
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	.0003 .0025 .0100 .0269 .0544 .0882 .1191 .1378 .1395 .1256 .1017 .0749 .0505 .0315 .0182	.0003 .0023 .0092 .0252 .0517 .0849 .1160 .1358 .1392 .1269 .1040 .0776 .0530 .0334 .0196	.0002 .0021 .0086 .0237 .0491 .0816 .1128 .1338 .1388 .1280 .1063 .0802 .0555 .0354 .0210	.0002 .0019 .0079 .0222 .0466 .0784 .1097 .1317 .1382 .1290 .1084 .0828 .0579 .0374 .0225	.0002 .0017 .0074 .0208 .0443 .0752 .1066 .1294 .1375 .1299 .1104 .0853 .0604 .0395 .0240	.0002 .0016 .0068 .0195 .0420 .0722 .1034 .1271 .1366 .1306 .1123 .0878 .0629 .0416 .0256	.0002 .0014 .0063 .0183 .0398 .0692 .1003 .1247 .1356 .1311 .1140 .0902 .0654 .0438 .0272	.0002 .0013 .0058 .0171 .0377 .0663 .0972 .1222 .1344 .1315 .1157 .0925 .0679 .0459 .0289	.0001 .0012 .0054 .0160 .0357 .0635 .0941 .1197 .1332 .1317 .1172 .0948 .0703 .0481 .0306	.0001 .0011 .0050 .0150 .0337 .0607 .0911 .1171 .1318 .1318 .1186 .0970 .0728 .0504 .0324	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	.0003 .0028 .0127 .0396 .0940 .1822 .3013 .4391 .5786 .7041 .8058 .8807 .9313 .9628 .9810	.0003 .0025 .0118 .0370 .0887 .1736 .2896 .4254 .5647 .6915 .7955 .8731 .9261 .9595 .9791	.0002 .0023 .0109 .0346 .0837 .1653 .2781 .4119 .5507 .6788 .7850 .8652 .9207 .9561 .9771	.0002 .0021 .0100 .0323 .0789 .1573 .2670 .3987 .5369 .6659 .7743 .8571 .9150 .9524 .9749	.0002 .0019 .0093 .0301 .0744 .1496 .2562 .3856 .5231 .6530 .7634 .8487 .9091 .9486 .9726	.0002 .0018 .0086 .0281 .0701 .1422 .2457 .3728 .5094 .6400 .7522 .8400 .9029 .9445 .9701	.0002 .0016 .0079 .0262 .0660 .1352 .2355 .3602 .4958 .6269 .7409 .8311 .8965 .9403 .9675	.0002 .0015 .0073 .0244 .0621 .1284 .2256 .3478 .4823 .6137 .7294 .8220 .8898 .9358 .9647	.0001 .0014 .0068 .0228 .0584 .1219 .2160 .3357 .4689 .6006 .7178 .8126 .8829 .9311 .9617	.0001 .0012 .0062 .0212 .0550 .1157 .2068 .3239 .4557 .5874 .7060 .8030 .8758 .9261 .9585
0 1 2 3 4 5 6 7 8 9 10 11 12 13	.0003 .0025 .0100 .0269 .0544 .0882 .1191 .1378 .1395 .1256 .1017 .0749 .0505 .0315	.0003 .0023 .0092 .0252 .0517 .0849 .1160 .1358 .1392 .1269 .1040 .0776 .0530 .0334 .0196	.0002 .0021 .0086 .0237 .0491 .0816 .1128 .1338 .1388 .1280 .1063 .0802 .0555 .0354 .0210	.0002 .0019 .0079 .0222 .0466 .0784 .1097 .1317 .1382 .1290 .1084 .0828 .0579 .0374 .0225	.0002 .0017 .0074 .0208 .0443 .0752 .1066 .1294 .1375 .1299 .1104 .0853 .0604 .0395 .0240 .0136 .0072	.0002 .0016 .0068 .0195 .0420 .0722 .1034 .1271 .1366 .1306 .1123 .0878 .0629 .0416 .0256	.0002 .0014 .0063 .0183 .0398 .0692 .1003 .1247 .1356 .1311 .1140 .0902 .0654 .0438 .0272	.0002 .0013 .0058 .0171 .0377 .0663 .0972 .1222 .1344 .1315 .1157 .0925 .0679 .0459 .0289	.0001 .0012 .0054 .0160 .0357 .0635 .0941 .1197 .1332 .1317 .1172 .0948 .0703 .0481 .0306	.0001 .0011 .0050 .0150 .0337 .0607 .0911 .1171 .1318 .1318 .1186 .0970 .0728 .0504 .0324 .0194 .0109	0 1 2 3 4 5 6 7 8 9 10 11 12 13	.0003 .0028 .0127 .0396 .0940 .1822 .3013 .4391 .5786 .7041 .8058 .8807 .9313 .9628 .9810	.0003 .0025 .0118 .0370 .0887 .1736 .2896 .4254 .5647 .6915 .7955 .8731 .9261 .9595 .9791	.0002 .0023 .0109 .0346 .0837 .1653 .2781 .4119 .5507 .6788 .7850 .8652 .9207 .9561	.0002 .0021 .0100 .0323 .0789 .1573 .2670 .3987 .5369 .6659 .7743 .8571 .9150 .9524	.0002 .0019 .0093 .0301 .0744 .1496 .2562 .3856 .5231 .6530 .7634 .8487 .9091 .9486 .9726	.0002 .0018 .0086 .0281 .0701 .1422 .2457 .3728 .5094 .6400 .7522 .8400 .9029 .9445 .9701	.0002 .0016 .0079 .0262 .0660 .1352 .2355 .3602 .4958 .6269 .7409 .8311 .8965 .9403 .9675	.0002 .0015 .0073 .0244 .0621 .1284 .2256 .3478 .4823 .6137 .7294 .8220 .8898 .9358 .9647 .9816	.0001 .0014 .0068 .0228 .0584 .1219 .2160 .3357 .4689 .6006 .7178 .8126 .8829 .9311 .9617 .9798 .9899	.0001 .0012 .0062 .0212 .0550 .1157 .2068 .3239 .4557 .5874 .7060 .8030 .8758 .9261 .9585
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	.0003 .0025 .0100 .0269 .0544 .0882 .1191 .1378 .1395 .1256 .1017 .0749 .0505 .0315 .0182	.0003 .0023 .0092 .0252 .0517 .0849 .1160 .1358 .1392 .1269 .1040 .0776 .0530 .0334 .0196	.0002 .0021 .0086 .0237 .0491 .0816 .1128 .1338 .1388 .1280 .1063 .0802 .0555 .0354 .0210	.0002 .0019 .0079 .0222 .0466 .0784 .1097 .1317 .1382 .1290 .1084 .0828 .0579 .0374 .0225	.0002 .0017 .0074 .0208 .0443 .0752 .1066 .1294 .1375 .1299 .1104 .0853 .0604 .0395 .0240	.0002 .0016 .0068 .0195 .0420 .0722 .1034 .1271 .1366 .1306 .1123 .0878 .0629 .0416 .0256	.0002 .0014 .0063 .0183 .0398 .0692 .1003 .1247 .1356 .1311 .1140 .0902 .0654 .0438 .0272	.0002 .0013 .0058 .0171 .0377 .0663 .0972 .1222 .1344 .1315 .1157 .0925 .0679 .0459 .0289	.0001 .0012 .0054 .0160 .0357 .0635 .0941 .1197 .1332 .1317 .1172 .0948 .0703 .0481 .0306	.0001 .0011 .0050 .0150 .0337 .0607 .0911 .1171 .1318 .1318 .1186 .0970 .0728 .0504 .0324	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	.0003 .0028 .0127 .0396 .0940 .1822 .3013 .4391 .5786 .7041 .8058 .8807 .9313 .9628 .9810	.0003 .0025 .0118 .0370 .0887 .1736 .2896 .4254 .5647 .6915 .7955 .8731 .9261 .9595 .9791	.0002 .0023 .0109 .0346 .0837 .1653 .2781 .4119 .5507 .6788 .7850 .8652 .9207 .9561 .9771	.0002 .0021 .0100 .0323 .0789 .1573 .2670 .3987 .5369 .6659 .7743 .8571 .9150 .9524 .9749	.0002 .0019 .0093 .0301 .0744 .1496 .2562 .3856 .5231 .6530 .7634 .8487 .9091 .9486 .9726	.0002 .0018 .0086 .0281 .0701 .1422 .2457 .3728 .5094 .6400 .7522 .8400 .9029 .9445 .9701	.0002 .0016 .0079 .0262 .0660 .1352 .2355 .3602 .4958 .6269 .7409 .8311 .8965 .9403 .9675	.0002 .0015 .0073 .0244 .0621 .1284 .2256 .3478 .4823 .6137 .7294 .8220 .8898 .9358 .9647	.0001 .0014 .0068 .0228 .0584 .1219 .2160 .3357 .4689 .6006 .7178 .8126 .8829 .9311 .9617	.0001 .0012 .0062 .0212 .0550 .1157 .2068 .3239 .4557 .5874 .7060 .8030 .8758 .9261 .9585

TABELA 2 – DISTRIBUIÇÃO DE POISSON (Continuação)

	0.1	0.2	0.2	0.4	0.5	0.6	0.7	0.0	0.0	0.0			0.1	0.3	0.2	0.4	0.5	0.6	0.7	0.0	0.0	0.0
X	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0		X	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0
20	.0002	.0002	.0002	.0003	.0003	.0004	.0004	.0005	.0005	.0006		20	.9999	.9999	.9998	.9998	.9998	.9998	.9997	.9997	.9996	.9996
21 22	.0001	.0001	.0001	.0001	.0001	.0002 .0001	.0002 .0001	.0002 .0001	.0002 .0001	.0003		21 22	1.0000 1.0000	1.0000 1.0000	.9999 1.0000	.9999 1.0000	.9999 1.0000	.9999 1.0000	.9999 1.0000	.9999 1.0000	.9998 1.0000	.9998 1.0000
	.0000	.0000	.0000	.0000	.0001	.0001	.0001	.0001	.0001	.0001	_	LL	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
X	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10		X	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10
0	.0001	.0001	.0001	.0001	.0001	.0001	.0001	.0001	.0001	.0000		0	.0001	.0001	.0001	.0001	.0001	.0001	.0001	.0001	.0001	.0000
1	.0010	.0009	.0009	.0008	.0007	.0007	.0006	.0005	.0005	.0005		1	.0011	.0010	.0009	.0009	.0008	.0007	.0007	.0006	.0005	.0005
2	.0046	.0043	.0040	.0037	.0034	.0031	.0029	.0027	.0025	.0023		2	.0058	.0053	.0049	.0045	.0042	.0038	.0035	.0033	.0030	.0028
3	.0140	.0131	.0123	.0115	.0107	.0100	.0093	.0087	.0081	.0076		3	.0198	.0184	.0172	.0160	.0149	.0138	.0129	.0120	.0111	.0103
4	.0319	.0302	.0285	.0269	.0254	.0240	.0226	.0213	.0201	.0189		4	.0517	.0486	.0456	.0429	.0403	.0378	.0355	.0333	.0312	.0293
5	.0581	.0555	.0530	.0506	.0483	.0460	.0439	.0418	.0398	.0378		5	.1098	.1041	.0986	.0935	.0885	.0838	.0793	.0750	.0710	.0671
6	.0881	.0851	.0822	.0793	.0764	.0736	.0709	.0682	.0656	.0631		6	.1978	.1892	.1808	.1727	.1649	.1574	.1502	.1433	.1366	.1301
7	.1145	.1118	.1091	.1064	.1037	.1010	.0982	.0955	.0928	.0901		7	.3123	.3010	.2900	.2792	.2687	.2584	.2485	.2388	.2294	.2202
8	.1302	.1286	.1269	.1251	.1232	.1212	.1191	.1170	.1148	.1126		8	.4426	.4296	.4168	.4042	.3918	.3796	.3676	.3558	.3442	.3328
9	.1317	.1315	.1311	.1306	.1300	.1293	.1284	.1274	.1263	.1251		9	.5742	.5611	.5479	.5349	.5218	.5089	.4960	.4832	.4705	.4579
10	.1198	.1210	.1219	.1228	.1235	.1241	.1245	.1249	.1250	.1251		10	.6941	.6820	.6699	.6576	.6453	.6329	.6205	.6080	.5955	.5830
11	.0991	.1012	.1031	.1049	.1067	.1083	.1098	.1112	.1125	.1137		11	.7932	.7832	.7730	.7626	.7520	.7412	.7303	.7193	.7081	.6968
12	.0752	.0776	.0799	.0822	.0844	.0866	.0888	.0908	.0928	.0948		12	.8684	.8607	.8529	.8448	.8364	.8279	.8191	.8101	.8009	.7916
13	.0526	.0549	.0572	.0594	.0617	.0640	.0662	.0685	.0707	.0729		13	.9210	.9156	.9100	.9042	.8981	.8919	.8853	.8786	.8716	.8645
14	.0342	.0361	.0380	.0399	.0419	.0439	.0459	.0479	.0500	.0521		14	.9552	.9517	.9480	.9441	.9400	.9357	.9312	.9265	.9216	.9165
15	.0208	.0221	.0235	.0250	.0265	.0281	.0297	.0313	.0330	.0347		15	.9760	.9738	.9715	.9691	.9665	.9638	.9609	.9579	.9546	.9513
16 17	.0118 .0063	.0127 .0069	.0137 .0075	.0147 .0081	.0157 .0088	.0168 .0095	.0180 .0103	.0192 .0111	.0204 .0119	.0217 .0128		16 17	.9878 .9941	.9865 .9934	.9852 .9927	.9838 .9919	.9823 .9911	.9806 .9902	.9789 .9892	.9770 .9881	.9751 .9870	.9730 .9857
18	.0032	.0035	.0073	.0042	.0088	.0093	.0055	.0060	.0065	.0128		18	.9941	.9954	.9947	.9919	.9911	.9902	.9892 .9947	.9861	.9935	.9837
19	.0032	.0033	.0039	.0042	.0023	.0026	.0033	.0031	.0034	.0071		19	.9988	.9986	.9985	.9983	.9980	.9978	.9975	.9972	.9969	.9965
20	.0007	.0008	.0009	.0010	.0011	.0012	.0014	.0015	.0017	.0019		20	.9995	.9994	.9993	.9992	.9991	.9990	.9989	.9987	.9986	.9984
21	.0003	.0003	.0004	.0004	.0005	.0006	.0006	.0007	.0008	.0009		21	.9998	.9998	.9997	.9997	.9996	.9996	.9995	.9995	.9994	.9993
22	.0001	.0001	.0002	.0002	.0002	.0002	.0003	.0003	.0004	.0004		22	.9999	.9999	.9999	.9999	.9999	.9998	.9998	.9998	.9997	.9997
23	.0000	.0001	.0001	.0001	.0001	.0001	.0001	.0001	.0002	.0002		23	1.0000	1.0000	1.0000	1.0000	.9999	.9999	.9999	.9999	.9999	.9999
24	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0001	.0001	.0001	_	24	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
x	11	12	13	14	15	16	17	18	19	20		x	11	12	13	14	15	16	17	18	19	20
0	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000		0	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
1	.0000	.0001	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000		1	.0000	.0001	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
2	.0010	.0004	.0002	.0001	.0000	.0000	.0000	.0000	.0000	.0000		2	.0012	.0005	.0002	.0001	.0000	.0000	.0000	.0000	.0000	.0000
3	.0037	.0018	.0008	.0004	.0002	.0001	.0000	.0000	.0000	.0000		3	.0049	.0023	.0011	.0005	.0002	.0001	.0000	.0000	.0000	.0000
4	.0102	.0053	.0027	.0013	.0006	.0003	.0001	.0001	.0000	.0000		4	.0151	.0076	.0037	.0018	.0009	.0004	.0002	.0001	.0000	.0000
5	.0224	.0127	.0070	.0037	.0019	.0010	.0005	.0002	.0001	.0001		5	.0375	.0203	.0107	.0055	.0028	.0014	.0007	.0003	.0002	.0001
6	.0411	.0255	.0152	.0087	.0048	.0026	.0014	.0007	.0004	.0002		6	.0786	.0458	.0259	.0142	.0076	.0040	.0021	.0010	.0005	.0003
7	.0646	.0437	.0281	.0174	.0104	.0060	.0034	.0019	.0010	.0005		7	.1432	.0895	.0540	.0316	.0180	.0100	.0054	.0029	.0015	.0008
8	.0888	.0655	.0457	.0304	.0194	.0120	.0072	.0042	.0024	.0013		8	.2320	.1550	.0998	.0621	.0374	.0220	.0126	.0071	.0039	.0021

TABELA 2 – DISTRIBUIÇÃO DE POISSON (Continuação)

A. Função probabilidade

x	11	12	13	14	15	16	17	18	19	20		X	11	12	13	14	15	16	17	18	19	20
9	.1085	.0874	.0661	.0473	.0324	.0213	.0135	.0083	.0050	.0029	9	9	.3405	.2424	.1658	.1094	.0699	.0433	.0261	.0154	.0089	.0050
10	.1194	.1048	.0859	.0663	.0486	.0341	.0230	.0150	.0095	.0058	1	10	.4599	.3472	.2517	.1757	.1185	.0774	.0491	.0304	.0183	.0108
11	.1194	.1144	.1015	.0844	.0663	.0496	.0355	.0245	.0164	.0106		11	.5793	.4616	.3532	.2600	.1848	.1270	.0847	.0549	.0347	.0214
12	.1094	.1144	.1099	.0984	.0829	.0661	.0504	.0368	.0259	.0176		12	.6887	.5760	.4631	.3585	.2676	.1931	.1350	.0917	.0606	.0390
13 14	.0926 .0728	.1056 .0905	.1099 .1021	.1060 .1060	.0956 .1024	.0814 .0930	.0658 .0800	.0509 .0655	.0378 .0514	.0271 .0387		13 14	.7813 .8540	.6815 .7720	.5730 .6751	.4644 .5704	.3632 .4657	.2745 .3675	.2009 .2808	.1426 .2081	.0984 .1497	.0661 .1049
15	.0534	.0724	.0885	.0989	.1024	.0992	.0906	.0786	.0650	.0516		15	.9074	.8444	.7636	.6694	.5681	.4667	.3715	.2867	.2148	.1565
16 17	.0367 .0237	.0543 .0383	.0719 .0550	.0866 .0713	.0960 .0847	.0992 .0934	.0963 .0963	.0884	.0772 .0863	.0646 .0760		16 17	.9441 .9678	.8987 .9370	.8355 .8905	.7559 .8272	.6641 .7489	.5660 .6593	.4677 .5640	.3751 .4686	.2920 .3784	.2211
17	.0237	.0383	.0330	.0554	.0706	.0830	.0903	.0936	.0803	.0760		18	.9823	.9626	.9302	.8826	.8195	.7423	.6550	.5622	.4695	.3814
19	.0084	.0161	.0272	.0409	.0557	.0699	.0814	.0887	.0911	.0888		19	.9907	.9787	.9573	.9235	.8752	.8122	.7363	.6509	.5606	.4703
20	.0046	.0097	.0177	.0286	.0418	.0559	.0692	.0798	.0866	.0888	2	20	.9953	.9884	.9750	.9521	.9170	.8682	.8055	.7307	.6472	.5591
21	.0040	.0057	.0109	.0280	.0299	.0339	.0560	.0684	.0783	.0846		21	.9977	.9939	.9859	.9712	.9469	.9108	.8615	.7991	.7255	.6437
22	.0012	.0030	.0065	.0121	.0204	.0310	.0433	.0560	.0676	.0769		22	.9990	.9970	.9924	.9833	.9673	.9418	.9047	.8551	.7931	.7206
23	.0006	.0016	.0037	.0074	.0133	.0216	.0320	.0438	.0559	.0669		23	.9995	.9985	.9960	.9907	.9805	.9633	.9367	.8989	.8490	.7875
24	.0003	.0008	.0020	.0043	.0083	.0144	.0226	.0328	.0442	.0557	2	24	.9998	.9993	.9980	.9950	.9888	.9777	.9594	.9317	.8933	.8432
25	.0001	.0004	.0010	.0024	.0050	.0092	.0154	.0237	.0336	.0446	2	25	.9999	.9997	.9990	.9974	.9938	.9869	.9748	.9554	.9269	.8878
26	.0000	.0002	.0005	.0013	.0029	.0057	.0101	.0164	.0246	.0343		26	1.0000	.9999	.9995	.9987	.9967	.9925	.9848	.9718	.9514	.9221
27	.0000	.0001	.0002	.0007	.0016	.0034	.0063	.0109	.0173	.0254		27	1.0000	.9999	.9998	.9994	.9983	.9959	.9912	.9827	.9687	.9475
28	.0000	.0000	.0001	.0003	.0009	.0019	.0038	.0070	.0117	.0181		28	1.0000	1.0000	.9999	.9997	.9991	.9978	.9950	.9897	.9805	.9657
29	.0000	.0000	.0001	.0002	.0004	.0011	.0023	.0044	.0077	.0125	2	29	1.0000	1.0000	1.0000	.9999	.9996	.9989	.9973	.9941	.9882	.9782
30	.0000	.0000	.0000	.0001	.0002	.0006	.0013	.0026	.0049	.0083		30	1.0000	1.0000	1.0000	.9999	.9998	.9994	.9986	.9967	.9930	.9865
31	.0000	.0000	.0000	.0000	.0001	.0003	.0007	.0015	.0030	.0054		31	1.0000	1.0000	1.0000	1.0000	.9999	.9997	.9993	.9982	.9960	.9919
32 33	.0000	.0000	.0000	.0000	.0001	.0001 .0001	.0004	.0009	.0018	.0034		32 33	1.0000 1.0000	1.0000 1.0000	1.0000 1.0000	1.0000 1.0000	1.0000 1.0000	.9999 .9999	.9996 .9998	.9990 .9995	.9978 .9988	.9953 .9973
33 34	.0000	.0000	.0000	.0000	.0000	.0000	.0002	.0003	.0016	.0020		34	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	.9998	.9993	.9988 .9994	.9973
35	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0001	.0003	.0007	3	35	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	.9999	.9997	.9992
36	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0001	.0003	.0004		36	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	.9999	.9998	.9996
37	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0001	.0002		37	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	.9999	.9998
38	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0001	3	38	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	.9999
39	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0001	3	39	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.000