

# Apéndice

TABLA 1. Valores de la función distribución normal estándar\*

$$\Phi(z) = \int_{-\infty}^z \frac{1}{\sqrt{2\pi}} e^{-u^2/2} du = P(Z \leq z)$$

z	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
-3.0	0.0013	0.0010	0.0007	0.0005	0.0003	0.0002	0.0002	0.0001	0.0001	0.0000
-2.9	0.0019	0.0018	0.0017	0.0017	0.0016	0.0016	0.0015	0.0015	0.0014	0.0014
-2.8	0.0026	0.0025	0.0024	0.0023	0.0023	0.0022	0.0021	0.0021	0.0020	0.0019
-2.7	0.0035	0.0034	0.0033	0.0032	0.0031	0.0030	0.0029	0.0028	0.0027	0.0026
-2.6	0.0047	0.0045	0.0044	0.0043	0.0041	0.0040	0.0039	0.0038	0.0037	0.0036
-2.5	0.0062	0.0060	0.0059	0.0057	0.0055	0.0054	0.0052	0.0051	0.0049	0.0048
-2.4	0.0082	0.0080	0.0078	0.0075	0.0073	0.0071	0.0069	0.0068	0.0066	0.0064
-2.3	0.0107	0.0104	0.0102	0.0099	0.0096	0.0094	0.0091	0.0089	0.0087	0.0084
-2.2	0.0139	0.0136	0.0132	0.0129	0.0126	0.0122	0.0119	0.0116	0.0113	0.0110
-2.1	0.0179	0.0174	0.0170	0.0166	0.0162	0.0158	0.0154	0.0150	0.0146	0.0143
-2.0	0.0228	0.0222	0.0217	0.0212	0.0207	0.0202	0.0197	0.0192	0.0188	0.0183
-1.9	0.0287	0.0281	0.0274	0.0268	0.0262	0.0256	0.0250	0.0244	0.0238	0.0233
-1.8	0.0359	0.0352	0.0344	0.0336	0.0329	0.0322	0.0314	0.0307	0.0300	0.0294
-1.7	0.0446	0.0436	0.0427	0.0418	0.0409	0.0401	0.0392	0.0384	0.0375	0.0367
-1.6	0.0548	0.0537	0.0526	0.0516	0.0505	0.0495	0.0485	0.0475	0.0465	0.0455
-1.5	0.0668	0.0655	0.0643	0.0630	0.0618	0.0606	0.0594	0.0582	0.0570	0.0559
-1.4	0.0808	0.0793	0.0778	0.0764	0.0749	0.0735	0.0722	0.0708	0.0694	0.0681
-1.3	0.0968	0.0951	0.0934	0.0918	0.0901	0.0885	0.0869	0.0853	0.0838	0.0823
-1.2	0.1151	0.1131	0.1112	0.1093	0.1075	0.1056	0.1038	0.1020	0.1003	0.0985
-1.1	0.1357	0.1335	0.1314	0.1292	0.1271	0.1251	0.1230	0.1210	0.1190	0.1170
-1.0	0.1587	0.1562	0.1539	0.1515	0.1492	0.1469	0.1446	0.1423	0.1401	0.1379
-0.9	0.1841	0.1814	0.1788	0.1762	0.1736	0.1711	0.1685	0.1660	0.1635	0.1611
-0.8	0.2119	0.2090	0.2061	0.2033	0.2005	0.1977	0.1949	0.1922	0.1894	0.1867
-0.7	0.2420	0.2389	0.2358	0.2327	0.2297	0.2266	0.2236	0.2206	0.2177	0.2148
-0.6	0.2743	0.2709	0.2676	0.2643	0.2611	0.2578	0.2546	0.2514	0.2483	0.2451
-0.5	0.3085	0.3050	0.3015	0.2981	0.2946	0.2912	0.2877	0.2843	0.2810	0.2776
-0.4	0.3446	0.3409	0.3372	0.3336	0.3300	0.3264	0.3228	0.3192	0.3156	0.3121
-0.3	0.3821	0.3783	0.3745	0.3707	0.3669	0.3632	0.3594	0.3557	0.3520	0.3483
-0.2	0.4207	0.4168	0.4129	0.4090	0.4052	0.4013	0.3974	0.3936	0.3897	0.3859
-0.1	0.4602	0.4562	0.4522	0.4483	0.4443	0.4404	0.4364	0.4325	0.4286	0.4247
-0.0	0.5000	0.4960	0.4920	0.4880	0.4840	0.4801	0.4761	0.4721	0.4681	0.4641

\*B.W. Lindgren, *Statistical Theory*, Nueva York, The Macmillan Co., 1960.

TABLA 1. (Continuación)

$$\Phi(z) = \int_{-\infty}^z \frac{1}{\sqrt{2\pi}} e^{-u^2/2} du = P(Z \leq z)$$

z	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
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	0.7703	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	0.9278	0.9292	0.9306	0.9319
1.5	0.9332	0.9345	0.9357	0.9370	0.9382	0.9394	0.9406	0.9418	0.9430	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	0.9648	0.9656	0.9664	0.9671	0.9678	0.9686	0.9693	0.9700	0.9706
1.9	0.9713	0.9719	0.9726	0.9732	0.9738	0.9744	0.9750	0.9756	0.9762	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	0.9874	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	0.9990	0.9993	0.9995	0.9997	0.9998	0.9998	0.9999	0.9999	1.0000

TABLA 2. Función de la distribución binomial

$$1 - F(x - 1) = \sum_{r=x}^{r=n} \binom{n}{r} p^r q^{n-r}$$

n = 10 x = 10	n = 10 x = 9	n = 10 x = 8	n = 10 x = 7	p
0.000000	0.000000	0.000000	0.000000	0.01
0.000000	0.000000	0.000000	0.000000	0.02
0.000000	0.000000	0.000000	0.000000	0.03
0.000000	0.000000	0.000000	0.000000	0.04
0.000000	0.000000	0.000000	0.000000	0.05
0.000000	0.000000	0.000000	0.000000	0.06
0.000000	0.000000	0.000000	0.000000	0.07
0.000000	0.000000	0.000000	0.000000	0.08
0.000000	0.000000	0.000000	0.000000	0.09
0.000000	0.000000	0.000000	0.000000	0.10
0.000000	0.000000	0.000000	0.000000	0.11
0.000000	0.000000	0.000000	0.000000	0.12
0.000000	0.000000	0.000000	0.000000	0.13
0.000000	0.000000	0.000000	0.000000	0.14
0.000000	0.000000	0.000000	0.000000	0.15
0.000000	0.000000	0.000000	0.000000	0.16
0.000000	0.000000	0.000000	0.000000	0.17
0.000000	0.000000	0.000000	0.000000	0.18
0.000000	0.000000	0.000000	0.000000	0.19
0.000000	0.000000	0.000000	0.000000	0.20
0.000000	0.000000	0.000000	0.000000	0.21
0.000000	0.000000	0.000000	0.000000	0.22
0.000000	0.000000	0.000000	0.000000	0.23
0.000000	0.000000	0.000000	0.000000	0.24
0.000000	0.000000	0.000000	0.000000	0.25
0.000000	0.000000	0.000000	0.000000	0.26
0.000000	0.000000	0.000000	0.000000	0.27
0.000000	0.000000	0.000000	0.000000	0.28
0.000000	0.000000	0.000000	0.000000	0.29
0.000000	0.000000	0.000000	0.000000	0.30
0.000000	0.000000	0.000000	0.000000	0.31
0.000000	0.000000	0.000000	0.000000	0.32
0.000000	0.000000	0.000000	0.000000	0.33
0.000000	0.000000	0.000000	0.000000	0.34
0.000000	0.000000	0.000000	0.000000	0.35
0.000000	0.000000	0.000000	0.000000	0.36
0.000000	0.000000	0.000000	0.000000	0.37
0.000000	0.000000	0.000000	0.000000	0.38
0.000000	0.000000	0.000000	0.000000	0.39
0.000000	0.000000	0.000000	0.000000	0.40
0.000000	0.000000	0.000000	0.000000	0.41
0.000000	0.000000	0.000000	0.000000	0.42
0.000000	0.000000	0.000000	0.000000	0.43
0.000000	0.000000	0.000000	0.000000	0.44
0.000000	0.000000	0.000000	0.000000	0.45
0.000000	0.000000	0.000000	0.000000	0.46
0.000000	0.000000	0.000000	0.000000	0.47
0.000000	0.000000	0.000000	0.000000	0.48
0.000000	0.000000	0.000000	0.000000	0.49
0.000000	0.000000	0.000000	0.000000	0.50

TABLA 2. (Continuación)

$$1 - F(x - 1) = \sum_{r=x}^{r=n} \binom{n}{r} p^r q^{n-r}$$

$n = 10$ $x = 6$	$n = 10$ $x = 5$	$n = 10$ $x = 4$	$n = 10$ $x = 3$	$n = 10$ $x = 2$	$n = 10$ $x = 1$	$p$
0.0000000	0.0000000	0.0000020	0.0001138	0.0042662	0.0956179	0.01
0.0000000	0.0000007	0.0000305	0.0008639	0.0161776	0.1829272	0.02
0.0000001	0.0000054	0.0001471	0.0027650	0.0345066	0.2625759	0.03
0.0000007	0.0000218	0.0004426	0.0062137	0.0581538	0.3351674	0.04
0.0000028	0.0000637	0.0010285	0.0115036	0.0861384	0.4012631	0.05
0.0000079	0.0001517	0.0020293	0.0188378	0.1175880	0.4613849	0.06
0.0000193	0.0003139	0.0035761	0.0283421	0.1517299	0.5160177	0.07
0.0000415	0.0005857	0.0058013	0.0400754	0.1878825	0.5656115	0.08
0.0000810	0.0010096	0.0088338	0.0540400	0.2254471	0.6105839	0.09
0.0001469	0.0016349	0.0127952	0.0701908	0.2639011	0.6513216	0.10
0.0002507	0.0025170	0.0177972	0.0884435	0.3027908	0.6881828	0.11
0.0004069	0.0037161	0.0239388	0.1086818	0.3417250	0.7214990	0.12
0.0006332	0.0052967	0.0313048	0.1307642	0.3803692	0.7515766	0.13
0.0009505	0.0073263	0.0399642	0.1542980	0.4184400	0.7786984	0.14
0.0013832	0.0098741	0.0499698	0.1798035	0.4557002	0.8031256	0.15
0.0019593	0.0130101	0.0613577	0.2064005	0.4919536	0.8250988	0.16
0.0027098	0.0168038	0.0741472	0.2341305	0.5270412	0.8448396	0.17
0.0036694	0.0213229	0.0883411	0.2628010	0.5608368	0.8625520	0.18
0.0048757	0.0266325	0.1039261	0.2922204	0.5932435	0.8784233	0.19
0.0063694	0.0327935	0.1208739	0.3222005	0.6241904	0.8926258	0.20
0.0081935	0.0398624	0.1391418	0.3525586	0.6536289	0.9053172	0.21
0.0103936	0.0478897	0.1586739	0.3831197	0.6815306	0.9166422	0.22
0.0130167	0.0569196	0.1794024	0.4137173	0.7078843	0.9267332	0.23
0.0161116	0.0669890	0.2012487	0.4441949	0.7326936	0.9357111	0.24
0.0197277	0.0781269	0.2241249	0.4744072	0.7559748	0.9436865	0.25
0.0239148	0.0903542	0.2479349	0.5042200	0.7777550	0.9507601	0.26
0.0287224	0.1036831	0.2725761	0.5335112	0.7980705	0.9570237	0.27
0.0341994	0.1181171	0.2979405	0.5621710	0.8169646	0.9625609	0.28
0.0403932	0.1336503	0.3239164	0.5901015	0.8344869	0.9674476	0.29
0.0473490	0.1502683	0.3503893	0.6172172	0.8506917	0.9717525	0.30
0.0551097	0.1679475	0.3772433	0.6434445	0.8656366	0.9755381	0.31
0.0637149	0.1866554	0.4043626	0.6687212	0.8793821	0.9788608	0.32
0.0732005	0.2063514	0.4316320	0.6929966	0.8919901	0.9817716	0.33
0.0835979	0.2269866	0.4589388	0.7162304	0.9035235	0.9843166	0.34
0.0949341	0.2485045	0.4861730	0.7383926	0.9140456	0.9865373	0.35
0.1072304	0.2708415	0.5132284	0.7594627	0.9236190	0.9884708	0.36
0.1205026	0.2939277	0.5400038	0.7794292	0.9323056	0.9901507	0.37
0.1347603	0.3176870	0.5664030	0.7982887	0.9401661	0.9916070	0.38
0.1500068	0.3420385	0.5923361	0.8160453	0.9472594	0.9928666	0.39
0.1662386	0.3668967	0.6177194	0.8327102	0.9536426	0.9939534	0.40
0.1834452	0.3921728	0.6424762	0.8483007	0.9593705	0.9948888	0.41
0.2016092	0.4177749	0.6665372	0.8628393	0.9644958	0.9956920	0.42
0.2207058	0.4436094	0.6898401	0.8763538	0.9690684	0.9963797	0.43
0.2407033	0.4695813	0.7123307	0.8888757	0.9731358	0.9969669	0.44
0.2615627	0.4955954	0.7339621	0.9004403	0.9767429	0.9974670	0.45
0.2832382	0.5215571	0.7546952	0.9110859	0.9799319	0.9978917	0.46
0.3056772	0.5473730	0.7744985	0.9208530	0.9827422	0.9982511	0.47
0.3288205	0.5729517	0.7933480	0.9297839	0.9852109	0.9985544	0.48
0.3526028	0.5982047	0.8112268	0.9379222	0.9873722	0.9988096	0.49
0.3769531	0.6230469	0.8281250	0.9453125	0.9892578	0.9990234	0.50

TABLA 3. Función de la distribución de Poisson\*

$$1 - F(x - 1) = \sum_{r=x}^{r=\infty} \frac{e^{-a} a^r}{r!}$$

$x$	$a = 0.2$	$a = 0.3$	$a = 0.4$	$a = 0.5$	$a = 0.6$
0	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
1	0.1812692	0.2591818	0.3296800	0.393469	0.451188
2	0.0175231	0.0369363	0.0615519	0.090204	0.121901
3	0.0011485	0.0035995	0.0079263	0.014388	0.023115
4	0.0000568	0.0002658	0.0007763	0.001752	0.003358
5	0.0000023	0.0000158	0.0000612	0.000172	0.000394
6	0.0000001	0.0000008	0.0000040	0.000014	0.000039
7			0.0000002	0.000001	0.000003
$x$	$a = 0.7$	$a = 0.8$	$a = 0.9$	$a = 1.0$	$a = 1.2$
0	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
1	0.503415	0.550671	0.593430	0.632121	0.698806
2	0.155805	0.191208	0.227518	0.264241	0.337373
3	0.034142	0.047423	0.062857	0.080301	0.120513
4	0.005753	0.009080	0.013459	0.018988	0.033769
5	0.000786	0.001411	0.002344	0.003660	0.007746
6	0.000090	0.000184	0.000343	0.000594	0.001500
7	0.000009	0.000021	0.000043	0.000083	0.000251
8	0.000001	0.000002	0.000005	0.000010	0.000037
9				0.000001	0.000005
10					0.000001
$x$	$a = 1.4$	$a = 1.6$	$a = 1.8$	$a = 1.9$	$a = 2.0$
0	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000
1	0.753403	0.798103	0.834701	0.850431	0.864665
2	0.408167	0.475069	0.537163	0.566251	0.593994
3	0.166502	0.216642	0.269379	0.296280	0.323324
4	0.053725	0.078813	0.108708	0.125298	0.142877
5	0.014253	0.023682	0.036407	0.044081	0.052653
6	0.003201	0.006040	0.010378	0.013219	0.016564
7	0.000622	0.001336	0.002569	0.003446	0.004534
8	0.000107	0.000260	0.000562	0.000793	0.001097
9	0.000016	0.000045	0.000110	0.000163	0.000237
10	0.000002	0.000007	0.000019	0.000030	0.000046
11		0.000001	0.000003	0.000005	0.000008

\*E.C. Molina, *Poisson's Exponential Binomial Limit*, Princeton, N.J., D. Van Nostrand, Inc., 1947.

TABLA 3. (Continuación)

$$1 - F(x - 1) = \sum_{r=x}^{r=\infty} \frac{e^{-a} a^r}{r!}$$

x	a = 2.5	a = 3.0	a = 3.5	a = 4.0	a = 4.5	a = 5.0
0	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
1	0.917915	0.950213	0.969803	0.981684	0.988891	0.993262
2	0.712703	0.800852	0.864112	0.908422	0.938901	0.959572
3	0.456187	0.576810	0.679153	0.761897	0.826422	0.875348
4	0.242424	0.352768	0.463367	0.566530	0.657704	0.734974
5	0.108822	0.184737	0.274555	0.371163	0.467896	0.559507
6	0.042021	0.083918	0.142386	0.214870	0.297070	0.384039
7	0.014187	0.033509	0.065288	0.110674	0.168949	0.237817
8	0.004247	0.011905	0.026736	0.051134	0.086586	0.133372
9	0.001140	0.003803	0.009874	0.021363	0.040257	0.068094
10	0.000277	0.001102	0.003315	0.008132	0.017093	0.031828
11	0.000062	0.000292	0.001019	0.002840	0.006669	0.013695
12	0.000013	0.000071	0.000289	0.000915	0.002404	0.005453
13	0.000002	0.000016	0.000076	0.000274	0.000805	0.002019
14		0.000003	0.000019	0.000076	0.000252	0.000698
15		0.000001	0.000004	0.000020	0.000074	0.000226
16			0.000001	0.000005	0.000020	0.000069
17				0.000005	0.000020	0.000020
18				0.000001	0.000001	0.000005
19						0.000001

TABLA 4. Valores críticos para la distribución t de Student\*

$$\Pr\{t \text{ de Student} \leq \text{valor tabulado}\} = \gamma$$

f	0.75	0.90	0.95	0.975	0.99	0.995
1	1.0000	3.0777	6.3138	12.7062	31.8207	63.6574
2	0.8165	1.8856	2.9200	4.3027	6.9646	9.9248
3	0.7649	1.6377	2.3534	3.1824	4.5407	5.8409
4	0.7407	1.5332	2.1318	2.7764	3.7469	4.6041
5	0.7267	1.4759	2.0150	2.5706	3.3649	4.0322
6	0.7176	1.4398	1.9432	2.4469	3.1427	3.7074
7	0.7111	1.4149	1.8946	2.3646	2.9980	3.4995
8	0.7064	1.3968	1.8595	2.3060	2.8965	3.3554
9	0.7027	1.3830	1.8331	2.2622	2.8214	3.2498
10	0.6998	1.3722	1.8125	2.2281	2.7638	3.1693
11	0.6974	1.3634	1.7959	2.2010	2.7181	3.1058
12	0.6955	1.3562	1.7823	2.1788	2.6810	3.0545
13	0.6938	1.3502	1.7709	2.1604	2.6503	3.0123
14	0.6924	1.3450	1.7613	2.1448	2.6245	2.9768
15	0.6912	1.3406	1.7531	2.1315	2.6025	2.9467
16	0.6901	1.3368	1.7459	2.1199	2.5835	2.9208
17	0.6892	1.3334	1.7396	2.1098	2.5669	2.8982
18	0.6884	1.3304	1.7341	2.1009	2.5524	2.8784
19	0.6876	1.3277	1.7291	2.0930	2.5395	2.8609
20	0.6870	1.3253	1.7247	2.0860	2.5280	2.8453
21	0.6864	1.3232	1.7207	2.0796	2.5177	2.8314
22	0.6858	1.3212	1.7171	2.0739	2.5083	2.8188
23	0.6853	1.3195	1.7139	2.0687	2.4999	2.8073
24	0.6848	1.3178	1.7109	2.0639	2.4922	2.7969
25	0.6844	1.3163	1.7081	2.0595	2.4851	2.7874
26	0.6840	1.3150	1.7056	2.0555	2.4786	2.7787
27	0.6837	1.3137	1.7033	2.0518	2.4727	2.7707
28	0.6834	1.3125	1.7011	2.0484	2.4671	2.7633
29	0.6830	1.3114	1.6991	2.0482	2.4620	2.7564
30	0.6828	1.3104	1.6973	2.0423	2.4573	2.7500
31	0.6825	1.3095	1.6955	2.0395	2.4528	2.7440
32	0.6822	1.3086	1.6939	2.0369	2.4487	2.7385
33	0.6820	1.3077	1.6924	2.0345	2.4448	2.7333
34	0.6818	1.3070	1.6909	2.0322	2.4411	2.7284
35	0.6816	1.3062	1.6896	2.0301	2.4377	2.7238
36	0.6814	1.3055	1.6883	2.0281	2.4345	2.7195
37	0.6812	1.3049	1.6871	2.0262	2.4314	2.7154
38	0.6810	1.3042	1.6860	2.0244	2.4286	2.7116
39	0.6808	1.3036	1.6849	2.0227	2.4258	2.7079
40	0.6807	1.3031	1.6839	2.0211	2.4233	2.7045
41	0.6805	1.3025	1.6829	2.0195	2.4208	2.7012
42	0.6804	1.3020	1.6820	2.0181	2.4185	2.6981
43	0.6802	1.3016	1.6811	2.0167	2.4163	2.6951
44	0.6801	1.3011	1.6802	2.0154	2.4141	2.6923
45	0.6800	1.3006	1.6794	2.0141	2.4121	2.6896

\*D. B. Owen, *Handbook of Statistical Tables*, Reading, Mass., Addison-Wesley Publishing Co., Inc., 1962. (Cortesía de la Atomic Energy Commission, Washington, D.C.)

TABLA 4. (Continuación)

Pr{t de Student ≤ valor tabulado} = γ

f	0.75	0.90	0.95	0.975	0.99	0.995
46	0.6799	1.3002	1.6787	2.0129	2.4102	2.6870
47	0.6797	1.2998	1.6779	2.0117	2.4083	2.6846
48	0.6796	1.2994	1.6772	2.0106	2.4066	2.6822
49	0.6795	1.2991	1.6766	2.0096	2.4049	2.6800
50	0.6794	1.2987	1.6759	2.0086	2.4033	2.6778
51	0.6793	1.2984	1.6753	2.0076	2.4017	2.6757
52	0.6792	1.2980	1.6747	2.0066	2.4002	2.6737
53	0.6791	1.2977	1.6741	2.0057	2.3988	2.6718
54	0.6791	1.2974	1.6736	2.0049	2.3974	2.6700
55	0.6790	1.2971	1.6730	2.0040	2.3961	2.6682
56	0.6789	1.2969	1.6725	2.0032	2.3948	2.6665
57	0.6788	1.2966	1.6720	2.0025	2.3936	2.6649
58	0.6787	1.2963	1.6716	2.0017	2.3924	2.6633
59	0.6787	1.2961	1.6711	2.0010	2.3912	2.6618
60	0.6786	1.2958	1.6706	2.0003	2.3901	2.6603
61	0.6785	1.2956	1.6702	1.9996	2.3890	2.6589
62	0.6785	1.2954	1.6698	1.9990	2.3880	2.6575
63	0.6784	1.2951	1.6694	1.9983	2.3870	2.6561
64	0.6783	1.2949	1.6690	1.9977	2.3860	2.6549
65	0.6783	1.2947	1.6686	1.9971	2.3851	2.6536
66	0.6782	1.2945	1.6683	1.9966	2.3842	2.6524
67	0.6782	1.2943	1.6679	1.9960	2.3833	2.6512
68	0.6781	1.2941	1.6676	1.9955	2.3824	2.6501
69	0.6781	1.2939	1.6672	1.9949	2.3816	2.6490
70	0.6780	1.2938	1.6669	1.9944	2.3808	2.6479
71	0.6780	1.2936	1.6666	1.9939	2.3800	2.6469
72	0.6779	1.2934	1.6663	1.9935	2.3793	2.6459
73	0.6779	1.2933	1.6660	1.9930	2.3785	2.6449
74	0.6778	1.2931	1.6657	1.9925	2.3778	2.6439
75	0.6778	1.2929	1.6654	1.9921	2.3771	2.6430
76	0.6777	1.2928	1.6652	1.9917	2.3764	2.6421
77	0.6777	1.2926	1.6649	1.9913	2.3758	2.6412
78	0.6776	1.2925	1.6646	1.9908	2.3751	2.6403
79	0.6776	1.2924	1.6644	1.9905	2.3745	2.6395
80	0.6776	1.2922	1.6641	1.9901	2.3739	2.6387
81	0.6775	1.2921	1.6639	1.9897	2.3733	2.6379
82	0.6775	1.2920	1.6636	1.9893	2.3727	2.6371
83	0.6775	1.2918	1.6634	1.9890	2.3721	2.6364
84	0.6774	1.2917	1.6632	1.9886	2.3716	2.6356
85	0.6774	1.2916	1.6630	1.9883	2.3710	2.6349
86	0.6774	1.2915	1.6628	1.9879	2.3705	2.6342
87	0.6773	1.2914	1.6626	1.9876	2.3700	2.6335
88	0.6773	1.2912	1.6624	1.9873	2.3695	2.6329
89	0.6773	1.2911	1.6622	1.9870	2.3690	2.6322
90	0.6772	1.2910	1.6620	1.9867	2.3685	2.6316

TABLA 5. Valores críticos para la distribución de χ-cuadrada\*

Pr{χ² r.v. con f grados de libertad ≤ valores tabulados} = γ

f	0.005	0.01	0.025	0.05	0.1	0.25
1	-	-	0.001	0.004	0.016	0.102
2	0.010	0.020	0.051	0.103	0.211	0.575
3	0.072	0.115	0.216	0.352	0.584	1.213
4	0.207	0.297	0.484	0.711	1.064	1.923
5	0.412	0.554	0.831	1.145	1.610	2.675
6	0.676	0.872	1.237	1.635	2.204	3.455
7	0.989	1.239	1.690	2.167	2.833	4.255
8	1.344	1.646	2.180	2.733	3.490	5.071
9	1.735	2.088	2.700	3.325	4.168	5.899
10	2.156	2.558	3.247	3.940	4.865	6.737
11	2.603	3.053	3.816	4.575	5.578	7.584
12	3.074	3.571	4.404	5.226	6.304	8.438
13	3.565	4.107	5.009	5.892	7.042	9.299
14	4.075	4.660	5.629	6.571	7.790	10.165
15	4.601	5.229	6.262	7.261	8.547	11.037
16	5.142	5.812	6.908	7.962	9.312	11.912
17	5.697	6.408	7.564	8.672	10.085	12.792
18	6.265	7.015	8.231	9.390	10.865	13.675
19	6.844	7.633	8.907	10.117	11.651	14.562
20	7.434	8.260	9.591	10.851	12.443	15.452
21	8.034	8.897	10.283	11.591	13.240	16.344
22	8.643	9.542	10.982	12.338	14.042	17.240
23	9.260	10.196	11.689	13.091	14.848	18.137
24	9.886	10.856	12.401	13.848	15.659	19.037
25	10.520	11.524	13.120	14.611	16.473	19.939
26	11.160	12.198	13.844	15.379	17.292	20.843
27	11.808	12.879	14.573	16.151	18.114	21.749
28	12.461	13.565	15.308	16.928	18.939	22.657
29	13.121	14.257	16.047	17.708	19.768	23.567
30	13.787	14.954	16.791	18.493	20.599	24.478
31	14.458	15.655	17.539	19.281	21.434	25.390
32	15.134	16.362	18.291	20.072	22.271	26.304
33	15.815	17.074	19.047	20.867	23.110	27.219
34	16.501	17.789	19.806	21.664	23.952	28.136
35	17.192	18.509	20.569	22.465	24.797	29.054
36	17.887	19.233	21.336	23.269	25.643	29.973
37	18.586	19.960	22.106	24.075	26.492	30.893
38	19.289	20.691	22.878	24.884	27.343	31.815
39	19.996	21.426	23.654	25.695	28.196	32.737
40	20.707	22.164	24.433	26.509	29.051	33.660
41	21.421	22.906	25.215	27.326	29.907	34.585
42	22.138	23.650	25.999	28.144	30.765	35.510
43	22.859	24.398	26.785	28.965	31.625	36.436
44	23.584	25.148	27.575	29.787	32.487	37.363
45	24.311	25.901	28.366	30.612	33.350	38.291

\*D. B. Owen, *Handbook of Statistical Tables*, Reading, Mass., Addison-Wesley Publishing Co., Inc., 1962. (Cortesía de la Atomic Energy Commission, Washington, D.C.)

TABLA 5. (Continuación)

$Pr\{\chi^2 \text{ r.v. con } f \text{ grados de libertad} \leq \text{valores tabulados}\} = \gamma$

f	0.75	0.90	0.95	0.975	0.99	0.995
1	1.323	2.706	3.841	5.024	6.635	7.879
2	2.773	4.605	5.991	7.378	9.210	10.597
3	4.108	6.251	7.815	9.348	11.345	12.838
4	5.385	7.779	9.488	11.143	13.277	14.860
5	6.626	9.236	11.071	12.833	15.086	16.750
6	7.841	10.645	12.592	14.449	16.812	18.548
7	9.037	12.017	14.067	16.013	18.475	20.278
8	10.219	13.362	15.507	17.535	20.090	21.955
9	11.389	14.684	16.919	19.023	21.666	23.589
10	12.549	15.987	18.307	20.483	23.209	25.188
11	13.701	17.275	19.675	21.920	24.725	26.757
12	14.845	18.549	21.026	23.337	26.217	28.299
13	15.984	19.812	22.362	24.736	27.688	29.819
14	17.117	21.064	23.685	26.119	29.141	31.319
15	18.245	22.307	24.996	27.488	30.578	32.801
16	19.369	23.542	26.296	28.845	32.000	34.267
17	20.489	24.769	27.587	30.191	33.409	35.718
18	21.605	25.989	28.869	31.526	34.805	37.156
19	22.718	27.204	30.144	32.852	36.191	38.582
20	23.828	28.412	31.410	34.170	37.566	39.997
21	24.935	29.615	32.671	35.479	38.932	41.401
22	26.039	30.813	33.924	36.781	40.289	42.796
23	27.141	32.007	35.172	38.076	41.638	44.181
24	28.241	33.196	36.415	39.364	42.980	45.559
25	29.339	34.382	37.652	40.646	44.314	46.928
26	30.435	35.563	38.885	41.923	45.642	48.290
27	31.528	36.741	40.113	43.194	46.963	49.645
28	32.620	37.916	41.337	44.461	48.278	50.993
29	33.711	39.087	42.557	45.722	49.588	52.336
30	34.800	40.256	43.773	46.979	50.892	53.672
31	35.887	41.422	44.985	48.232	52.191	55.003
32	36.973	42.585	46.194	49.480	53.486	56.328
33	38.058	43.745	47.400	50.725	54.776	57.648
34	39.141	44.903	48.602	51.966	56.061	58.964
35	40.223	46.059	49.802	53.203	57.342	60.275
36	41.304	47.212	50.998	54.437	58.619	61.581
37	42.383	48.363	52.192	55.668	59.892	62.883
38	43.462	49.513	53.384	56.896	61.162	64.181
39	44.539	50.660	54.572	58.120	62.428	65.476
40	45.616	51.805	55.758	59.342	63.691	66.766
41	46.692	52.949	56.942	60.561	64.950	68.053
42	47.766	54.090	58.124	61.777	66.206	69.336
43	48.840	55.230	59.304	62.990	67.459	70.616
44	49.913	56.369	60.481	64.201	68.710	71.893
45	50.985	57.505	61.656	65.410	69.957	73.166

TABLA 6. Números aleatorios\*

07018	31172	12572	23968	55216	85366	56223	09300	94564	18172
52444	65625	97918	46794	62370	59344	20149	17596	51669	47429
72161	57299	87521	44351	99981	55008	93371	60620	66662	27036
17918	75071	91057	46829	47992	26797	64423	42379	91676	75127
13623	76165	43195	50205	75736	77473	07268	31330	07337	55901
27426	97534	89707	97453	90836	78967	00704	85734	21776	85764
96039	21338	88169	69530	53300	29895	71507	28517	77761	17244
68282	98888	25545	69406	29470	46476	54562	79373	72993	98998
54262	21477	33097	48125	92982	98382	11265	25366	06636	25349
66290	27544	72780	91384	47296	54892	59168	83951	91075	04724
53348	39044	04072	62210	01209	43999	54952	68699	31912	09317
34482	42758	40128	48436	30254	50029	19016	56837	05206	33851
99268	98715	07545	27317	52459	75366	43688	27460	65145	65429
95342	97178	10401	31615	95784	77026	33087	65961	10056	72834
38556	60373	77935	64608	28949	94764	45312	71171	15400	72182
39159	04795	51163	84475	60722	35268	05044	56420	39214	89822
41786	18169	96649	92406	42773	23672	37333	85734	99886	81200
95627	30768	30607	89023	60730	31519	53462	90489	81693	17849
98738	15548	42263	79489	85118	97073	01574	57310	59375	54417
75214	61575	27805	21930	94726	39454	19616	72239	93791	22610
73904	89123	19271	15792	72675	62175	48746	56084	54029	22296
33329	08896	94662	05781	59187	53284	28024	45421	37956	14252
66364	94799	62211	37539	80172	43269	91133	05562	82385	91760
68349	16984	86532	96186	53891	48268	82821	19526	63257	14288
19193	99621	66899	12351	72438	99839	24228	32079	53517	18558
49017	23489	19172	80439	76263	98918	59330	20121	89779	58862
76941	77008	27646	82072	28048	41589	70883	72035	81800	50296
55430	25875	26446	25738	32962	24266	26814	01194	48587	93319
33023	26895	65304	34978	43053	28951	22676	05303	39725	60054
87337	74487	83196	61939	05045	20405	69324	80823	20905	68727
81773	36773	21247	54735	68996	16937	18134	51873	10973	77090
74279	85087	94186	67793	18178	82224	17069	87880	54945	73489
34968	76028	54285	90845	35464	68076	15868	70063	26794	81386
99696	78454	21700	12301	88832	96796	59341	16136	01803	17537
55282	61051	97260	89829	69121	86547	62195	72492	33536	60137
31337	83886	72886	42598	05464	88071	92209	50728	67442	47529
94128	97990	58609	20002	76530	81981	30999	50147	93941	80754
06511	48241	49521	64568	69459	95079	42588	98590	12829	64366
69981	03469	56128	80405	97485	88251	76708	09558	86759	15065
23701	56612	86307	02364	88677	17192	23082	00728	78660	74196
09237	24607	12817	98120	30937	70666	76059	44446	94188	14060
11007	45461	24725	02877	74667	18427	45658	40044	59484	59966
60622	78444	39582	91930	97948	13221	99234	99629	22430	49247
79973	43668	19599	30021	68572	31816	63033	14597	28953	21162
71080	71367	23485	82364	30321	42982	74427	25625	74309	15855
09923	26729	74573	16583	37689	06703	21846	78329	98578	25447
63094	72826	65558	22616	33472	67515	75585	90005	19747	08865
19806	42212	41268	84923	21002	30588	40676	94961	31154	83133
17295	74244	43088	27056	86338	47331	9737	83735	84058	12382
59338	27190	99302	84020	15425	14748	42380	99376	30496	84523

\*The Rand Corporation, *A Million Random Digits with 100,000 Deviates*, The Free Press, 1955.

TABLA 6. (Continuación)

96124	73355	01925	17210	81719	74603	30305	29383	69753	61156
31283	54371	20985	00299	71681	22496	71241	35347	37285	02028
49988	48558	20397	60384	24574	14852	26414	10767	60334	36911
82790	45529	48792	31384	55649	08779	94194	62843	11182	49766
51473	13821	75776	24401	00445	61570	80687	39454	07628	94806
07785	02854	91971	63537	84671	03517	28914	48762	76952	96837
16624	68335	46052	07442	41667	62897	40326	75187	36639	21396
28718	92405	07123	22008	83082	28526	49117	96627	38470	78905
33373	90330	67545	74667	20308	58239	22772	34500	34392	92989
36535	48606	11139	82646	18600	53898	70267	74970	35100	01291
47408	62155	47467	14813	56684	56681	31779	30441	19883	17044
56129	36513	41292	82142	13717	49966	35367	43255	06993	17418
35459	10460	33925	75946	26708	63004	89286	24880	38838	76022
61955	55992	36520	08005	48783	08773	45424	44359	25248	75881
85374	69791	18857	92948	90933	90290	97232	61348	22204	43440
15556	39555	09325	16717	74724	79343	26313	39585	56285	22525
75454	90681	73339	08810	89616	99234	36613	43440	60269	90899
27582	90856	04254	23715	00086	12164	16943	62099	32132	93031
89658	47708	01691	22284	50446	05451	68947	34932	81628	22716
57194	77203	26072	92538	85097	58178	46391	58980	12207	94901
64219	53416	03811	11439	80876	38314	77078	85171	06316	29523
53166	78592	80640	58248	68818	78915	57288	85310	43287	89223
58112	88451	22892	29765	20908	49267	18968	39165	03332	94932
14548	36314	05831	01921	97159	55540	00867	84293	54653	81281
21251	15618	40764	99303	38995	97879	98178	03701	70069	80463
30953	63369	05445	20240	35362	82072	29280	72468	94845	97004
12764	79194	36992	74905	85867	18672	28716	17995	63510	67901
72393	71563	42596	87316	80039	75647	66121	17083	07327	39209
11031	40757	10904	22385	39813	63111	33237	95008	09057	50820
91948	69586	45045	67557	86629	67943	23405	86552	17393	24221
18537	07384	13059	47389	97265	11379	24426	09528	36035	02501
66885	11985	38553	97029	88433	78988	88864	03876	48791	72613
96177	71237	08744	38483	16602	94343	18593	84747	57469	08334
37321	96867	64979	89159	33269	06367	09234	77201	92195	89547
77905	69703	77702	90176	04883	84487	88688	09360	42803	88379
53814	14560	43698	86631	87561	90731	59632	52672	24519	10966
16963	37320	40740	79330	04318	56078	23196	49668	80418	73842
87558	58885	65475	25295	59946	47877	81764	85986	61687	04373
84269	55068	10532	43324	39407	65004	35041	20714	20880	19385
94907	08019	05159	64613	26962	30688	51677	05111	51215	53285
45735	14319	78439	18033	72250	87674	67405	94163	16622	54994
11755	40589	83489	95820	70913	87328	04636	42466	68427	79135
51242	05075	80028	35144	70599	92270	62912	08859	87405	08266
00281	25893	94848	74342	45848	10404	28635	92136	42852	40812
12233	65661	10625	93343	21834	95563	15070	99901	09382	01498
88817	57827	02940	66788	76246	85094	44885	72542	31695	83843
75548	53699	90888	94921	04949	80725	72120	80838	38409	72270
42860	40656	33282	45677	05003	46597	67666	70858	41314	71100
71208	72822	17662	50330	32576	95030	87874	25965	05261	95727
44319	22313	89649	47415	21065	42846	78055	64776	61993	48051

TABLA 7. Desviaciones normales aleatorias

	00	01	02	03	04	05	06	07	08	09
00	.31	-.51	-1.45	-.35	.18	.09	.00	.11	-1.91	-1.07
01	.90	-.36	.33	-.28	.30	-2.62	-1.43	-1.79	-.99	-.35
02	.22	.58	.87	-.02	.04	.12	-.17	.78	-1.31	.95
03	-1.00	.53	-1.90	-.77	.67	.56	-.94	.16	2.22	-.08
04	-.12	-.43	.69	.75	-.32	.71	-1.13	-.79	-.26	-.86
05	.01	.37	-.36	.68	.44	.43	1.18	-.68	-.13	-.41
06	.16	-.83	-1.88	.89	-.39	.93	-.76	-.12	.66	2.06
07	1.31	-.82	-.36	.36	.24	-.95	.41	-.77	.78	-.27
08	-.38	-.26	-1.73	.06	-.14	1.59	.96	-1.39	.51	-.50
09	.38	.42	-1.39	-.22	-.28	-.03	2.48	1.11	1.10	.40
10	1.07	2.26	-1.68	-.04	.19	1.38	-1.53	-1.41	.09	-1.91
11	-1.65	-1.29	-1.03	.06	2.18	-.55	-.34	-1.07	.80	1.77
12	1.02	-.67	-1.11	.08	-1.92	-.97	-.70	-.40	-.72	-.47
13	.06	1.43	-.46	-.62	-.11	.36	.64	-.27	.72	.68
14	.47	-1.84	.69	-1.07	.83	-.25	-.91	-1.94	.96	.75
15	-.10	1.00	-.54	.61	-1.04	-.33	.94	.56	.62	.07
16	-.71	.04	.63	-.26	-1.35	-1.20	1.52	.63	-1.29	1.16
17	-.94	-.94	.56	-.09	.63	-.36	.20	-.60	-.29	.94
18	.29	.62	-1.09	1.84	-.11	.19	-.45	.23	-.63	-.06
19	.57	.54	-.21	.09	-.57	-.10	-1.25	-.26	.88	-.26
20	.24	.19	-.67	3.04	1.26	-1.21	.52	-.05	.76	-.09
21	-1.47	1.20	.70	-1.80	-1.07	-.29	1.18	.34	-.74	1.75
22	-.01	.49	1.16	.17	-.48	.81	1.40	.17	.57	.64
23	-.63	-.26	.55	-.21	-.07	-.37	.47	-1.69	.05	-.96
24	.85	-.65	-.94	.12	-1.67	.28	-.42	.14	-1.15	-.41
25	1.07	-.36	1.10	.83	.37	-.20	-.75	-.50	.18	1.31
26	1.18	2.09	-.61	.44	.40	.42	-.61	-2.55	-.09	-1.33
27	.47	.88	.71	.31	.41	-1.96	.34	-.17	1.73	-.33
28	.26	.90	.11	.28	.76	-.12	-1.01	1.29	-.71	2.15
29	.39	-.88	-.15	-.38	.55	-.41	-.02	-.74	-.48	.46
30	-1.01	-.89	-1.23	.07	-.07	.08	-.08	-1.95	-.34	-.29
31	1.36	.18	.85	.55	.00	-.43	.27	-.39	.25	.69
32	1.02	-2.49	1.79	.04	-.03	.85	-.29	-.77	.28	-.33
33	-.53	-1.13	.75	-.39	.43	.10	-2.17	.37	-1.85	.96
34	.76	1.21	-.68	.26	.93	.99	1.12	-1.72	-.04	-.73
35	.07	-.23	-.88	-.23	.68	.24	1.38	-2.10	-.79	-.27
36	.27	.61	.43	-.38	.68	-.72	.90	-.14	-1.61	-.88
37	.93	.72	-.45	2.80	-.12	.74	-1.47	.39	-.61	-2.77
38	1.03	-.43	.95	-1.49	-.63	.22	.79	-2.80	-.41	.61
39	-.32	1.41	-.23	-.36	.60	-.59	.36	.63	.73	.81
40	1.41	.64	.06	.25	-1.75	.39	1.84	1.23	-1.27	-.75
41	.25	-.70	.33	.12	.04	1.03	-.64	.08	1.63	.34
42	-1.15	.57	.34	-.32	2.31	.74	.85	-1.25	-.17	.14
43	.72	.01	.50	-1.42	.26	-.74	-.55	1.86	-.17	-.10
44	-.92	.15	-.66	.83	.50	.24	-.40	1.90	.35	.69
45	-.42	.62	.24	.55	-.06	.14	-1.09	-1.53	.30	-1.56
46	-.54	1.21	-.53	.29	1.04	-.32	-1.20	.01	.05	.20
47	-.13	-.70	.07	.69	.88	1.18	.61	-.46	-1.54	.50
48	-.29	.36	1.44	-.44	.53	-.14	.66	.00	.33	-.36
49	1.90	-1.21	-1.87	-.27	-1.86	-.49	.25	.25	.14	1.73

TABLA 7. (Continuación)

	10	11	12	13	14	15	16	17	18	19
00	-.73	.25	-2.08	.17	-1.04	-.23	.74	.23	.70	-.79
01	-.87	-.74	1.44	-.79	-.76	-.42	1.93	.88	.80	-.53
02	1.18	.05	.10	-.15	.05	1.06	.82	.90	-1.38	.51
03	-2.09	1.13	-.50	.37	-.18	-.16	-1.85	-.90	1.32	-.83
04	-.32	1.06	1.14	-.23	.49	1.10	-.27	-.64	.47	-.05
05	.90	-.86	.63	-1.62	-.52	-1.55	.78	-.54	-.29	.19
06	-.16	-.22	-.17	-.81	.49	.96	.53	1.73	.14	1.21
07	.15	-1.12	.80	-.30	-.77	-.91	.00	.94	-1.16	.44
08	-1.87	.72	-1.17	-.36	-1.42	-.46	-.58	.03	2.08	1.11
09	.87	.95	.05	.46	-.01	.85	1.19	-1.61	-.10	-.87
10	.52	.12	-1.04	-.56	-.91	-.13	.17	1.17	-1.24	.84
11	-1.39	-1.18	1.67	2.88	-2.06	.10	.05	-.55	.74	.33
12	-.94	-.46	-.85	-.29	.54	.71	.90	-.42	-1.30	.50
13	-.51	.04	-.44	-1.87	-1.06	1.18	-.39	.22	-.55	-.54
14	-1.50	-.21	-.89	.43	-1.81	-.07	-.66	-.02	1.77	-1.54
15	-.48	1.54	1.88	.66	-.62	.28	-.34	2.42	-1.65	2.06
16	.89	-.23	.57	.23	1.81	1.02	.33	1.23	1.31	.06
17	.38	1.52	-1.32	2.13	-.14	.28	-.46	.25	.65	1.18
18	-.53	.37	.19	-2.41	.16	.36	-.15	.14	-.15	-.73
19	.15	.62	-1.29	1.84	.80	-.65	1.72	-1.77	.07	.46
20	-.81	-.22	1.16	1.09	-.73	-.15	.87	-.88	.92	-.04
21	-1.61	2.51	-2.17	.49	-1.24	1.16	.97	.15	.37	.18
22	.26	-.48	-.43	-2.08	.75	1.59	1.78	-.55	.85	-1.87
23	-.32	.75	-.35	2.10	-.70	1.29	.94	.20	-1.16	.89
24	-1.00	1.37	.68	.00	1.87	-.14	.77	-.12	.89	-.73
25	.66	.04	-1.73	.25	.26	1.46	-.77	-1.67	.18	-.92
26	-.20	-1.53	.59	-.15	-.15	-.11	-.68	-.14	-.42	-1.51
27	1.01	-.44	-.2	-2.05	-.27	-.50	-.27	-.45	.83	.49
28	-1.81	.45	.27	-.67	-.74	-.17	-1.11	.13	-1.18	-1.41
29	-.40	1.34	1.50	.57	-1.78	.08	.95	.69	.38	.71
30	-.01	.15	-1.83	1.18	.11	.62	1.86	.42	.03	-.14
31	-.23	-.19	-1.08	.44	-.41	-1.32	.14	.65	-.76	.76
32	-1.27	.13	-.17	-.74	-.44	1.67	-.07	-.99	.51	.76
33	-1.72	1.70	-.61	-.18	.48	-.26	-.12	-2.83	2.35	1.25
34	.78	1.55	-.19	.43	-1.53	-.76	.83	-.46	.48	-.43
35	1.86	1.12	-2.09	1.82	-.71	-1.76	-.20	-.38	.82	-1.08
36	-.50	-.93	-.68	-1.62	-.88	.05	-.27	.23	-.58	-.24
37	1.02	-.81	-.62	1.46	-.31	-.37	.08	.59	-.27	.37
38	-1.57	.10	.11	-1.48	1.02	2.35	.27	-1.22	-1.26	2.22
39	2.27	-.61	.61	-.28	-.39	-.45	.89	1.43	1.03	-.01
40	-2.17	-.69	1.33	-.26	.15	-.10	-.78	.64	-.70	.14
41	.05	-1.71	.21	.55	-.60	-.74	-.90	2.52	-.07	-1.11
42	-.38	1.75	.93	-1.36	-.60	-1.76	-1.10	.42	1.44	-.58
43	.40	-1.50	.24	-.66	.83	.37	-.35	.16	.96	.79
44	.39	.66	.19	-2.08	.32	-.42	-.53	.92	.69	-.03
45	-.12	1.18	-.08	.30	-.21	.45	-1.84	.26	.90	.85
46	1.20	-.91	-1.08	-.99	1.76	-.80	.51	.25	-.11	-.58
47	-1.04	1.28	2.50	1.56	-.95	-1.02	.45	-1.90	-.02	-.73
48	-.32	.56	-1.03	.11	-.72	.53	-.27	-.17	1.40	1.61
49	1.08	.56	.34	-.28	-.37	.46	.03	-1.13	.34	-1.08

# Respuestas a problemas seleccionados\*

## CAPÍTULO 1

- 1.1. a)  $\{5\}$     b)  $\{1, 3, 4, 5, 6, 7, 8, 9, 10\}$     c)  $\{2, 3, 4, 5\}$   
 d)  $\{1, 5, 6, 7, 8, 9, 10\}$     e)  $\{1, 2, 5, 6, 7, 8, 9, 10\}$
- 1.2. a)  $\{x|0 \leq x < \frac{1}{4}\} \cup \{x|\frac{3}{2} \leq x \leq 2\}$   
 b)  $\{x|0 \leq x < \frac{1}{4}\} \cup \{x|\frac{1}{2} < x \leq 1\} \cup \{x|\frac{3}{2} \leq x \leq 2\}$   
 c)  $\{x|0 \leq x \leq \frac{1}{2}\} \cup \{x|1 < x < 2\}$   
 d)  $\{x|\frac{1}{4} \leq x \leq \frac{1}{2}\} \cup \{x|1 < x < \frac{3}{2}\}$
- 1.3. a) Verdadero    b) Verdadero    c) Falso    d) Falso  
 e) Verdadero
- 1.4. a)  $A = \{(0, 0), (1, 0), (2, 0), (0, 1), (1, 1), (2, 1), (0, 2), (1, 2)\}$   
 b)  $B = \{(0, 0), (1, 0), (2, 0), (3, 0), (4, 0), (5, 0), (6, 0), (1, 1), (2, 1), (3, 1), (4, 1), (5, 1), (6, 1), (2, 2), (3, 2), (4, 2), (5, 2), (6, 2), (2, 3), (3, 3), (4, 3), (5, 3), (6, 3), (2, 4), (3, 4), (4, 4), (5, 4), (6, 4), (3, 5), (4, 5), (5, 5), (6, 5), (3, 6), (4, 6), (5, 6), (6, 6)\}$
- 1.6.  $\{DD, NDD, DNDD, DNND, DNND, DNNN, NDND, NDNN, NNDD, NNDN, NNNN, NNNN\}$
- 1.10. a)  $\{(x, y)|0 \leq x < y \leq 24\}$

\*N. del E. Considérese la siguiente relación de respuestas alternativas a problemas incluidos en esta sección.