# Standard Normal table

		0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	
$y = (2\pi e^{z^2}) - 0.5$	$\leq -3.50$ $-3.4$ $-3.3$ $-3.2$ $-3.1$ $-3.0$		$\begin{array}{c} 0.0003 \\ 0.0005 \\ 0.0007 \\ 0.0009 \\ 0.0013 \end{array}$		$\begin{array}{c} 0.0003 \\ 0.0004 \\ 0.0006 \\ 0.0009 \\ 0.0012 \end{array}$	0.0003 0.0004 0.0006 0.0008 0.0012	$\begin{array}{c} 0.0003 \\ 0.0004 \\ 0.0006 \\ 0.0008 \\ 0.0011 \end{array}$	0.0008	$\begin{array}{c} 0.0003 \\ 0.0004 \\ 0.0005 \\ 0.0008 \\ 0.0011 \end{array}$	$\begin{array}{c} 0.0003 \\ 0.0004 \\ 0.0005 \\ 0.0007 \\ 0.0010 \end{array}$	0.0003	
$\mathbf{P}(\mathbf{z} \text{ or less})$	$\begin{array}{c} -2.9 \\ -2.8 \\ -2.7 \\ -2.6 \\ -2.5 \\ -2.4 \\ -2.3 \\ -2.2 \\ -2.1 \\ -2.0 \end{array}$	$\begin{array}{c} 0.0026 \\ 0.0035 \\ 0.0047 \\ 0.0062 \\ 0.0082 \end{array}$	$\begin{array}{c} 0.0080 \\ 0.0104 \\ 0.0136 \\ 0.0174 \end{array}$	$\begin{array}{c} 0.0044 \\ 0.0059 \\ 0.0078 \\ 0.0102 \\ 0.0132 \end{array}$	$\begin{array}{c} 0.0017 \\ 0.0023 \\ 0.0032 \\ 0.0043 \\ 0.0057 \\ 0.0075 \\ 0.0099 \\ 0.0129 \\ 0.0166 \\ 0.0212 \end{array}$	$\begin{array}{c} 0.0016 \\ 0.0023 \\ 0.0031 \\ 0.0041 \\ 0.0055 \\ 0.0073 \\ 0.0096 \\ 0.0125 \\ 0.0162 \\ 0.0207 \end{array}$	$\begin{array}{c} 0.0016 \\ 0.0022 \\ 0.0030 \\ 0.0040 \\ 0.0054 \\ 0.0071 \\ 0.0094 \\ 0.0122 \\ 0.0158 \\ 0.0202 \end{array}$	$\begin{array}{c} 0.0091 \\ 0.0119 \\ 0.0154 \end{array}$	$\begin{array}{c} 0.0015 \\ 0.0021 \\ 0.0028 \\ 0.0038 \\ 0.0051 \\ 0.0068 \\ 0.0089 \\ 0.0116 \\ 0.0150 \\ 0.0192 \end{array}$	0.0020 0.0027 0.0037 0.0049 0.0066 0.0087 0.0113 0.0146	0.0026 0.0036 0.0048 0.0064 0.0084	$\begin{array}{c} -2.8 \\ -2.7 \\ -2.6 \\ -2.5 \\ -2.4 \\ -2.3 \\ -2.2 \\ -2.1 \end{array}$
	$\begin{array}{c} -1.9 \\ -1.8 \\ -1.7 \\ -1.6 \\ -1.5 \\ -1.4 \\ -1.3 \\ -1.2 \\ -1.1 \\ -1.0 \end{array}$	0.0808 $0.0968$ $0.1151$ $0.1357$	$\begin{array}{c} 0.0281 \\ 0.0351 \\ 0.0436 \\ 0.0537 \\ 0.0655 \\ 0.0793 \\ 0.0951 \\ 0.1131 \\ 0.1335 \\ 0.1562 \end{array}$	$0.1112 \\ 0.1314$	$\begin{array}{c} 0.0268 \\ 0.0336 \\ 0.0418 \\ 0.0516 \\ 0.0630 \\ 0.0764 \\ 0.0918 \\ 0.1093 \\ 0.1292 \\ 0.1515 \end{array}$	$\begin{array}{c} 0.0262 \\ 0.0329 \\ 0.0409 \\ 0.0505 \\ 0.0618 \\ 0.0749 \\ 0.0901 \\ 0.1075 \\ 0.1271 \\ 0.1492 \end{array}$	$\begin{array}{c} 0.0256 \\ 0.0322 \\ 0.0401 \\ 0.0495 \\ 0.0606 \\ 0.0735 \\ 0.0885 \\ 0.1057 \\ 0.1251 \\ 0.1469 \end{array}$	$\begin{array}{c} 0.0314 \\ 0.0392 \\ 0.0485 \\ 0.0594 \\ 0.0721 \\ 0.0869 \\ 0.1038 \\ 0.1230 \end{array}$	$\begin{array}{c} 0.0307 \\ 0.0384 \\ 0.0475 \\ 0.0582 \\ 0.0708 \\ 0.0853 \\ 0.1020 \end{array}$	0.0301 0.0375 0.0465 0.0571 0.0694 0.0838 0.1003	$0.0559 \\ 0.0681$	$\begin{array}{c} -1.8 \\ -1.7 \\ -1.6 \\ -1.5 \\ -1.4 \\ -1.3 \\ -1.2 \\ -1.1 \end{array}$
lle rank = area left of $z$	$\begin{array}{c} -0.9 \\ -0.8 \\ -0.7 \\ -0.6 \\ -0.5 \\ -0.4 \\ -0.3 \\ -0.2 \\ -0.1 \\ -0.0 \end{array}$	$\begin{array}{c} 0.2743 \\ 0.3085 \\ 0.3446 \\ 0.3821 \\ 0.4207 \\ 0.4602 \end{array}$	$\begin{array}{c} 0.1814 \\ 0.2090 \\ 0.2389 \\ 0.2709 \\ 0.3050 \\ 0.3409 \\ 0.3783 \\ 0.4168 \\ 0.4562 \\ 0.4960 \end{array}$	0.2061 0.2358 0.2676 0.3015 0.3372 0.3745 0.4129	$\begin{array}{c} 0.1762 \\ 0.2033 \\ 0.2327 \\ 0.2643 \\ 0.2981 \\ 0.3336 \\ 0.3707 \\ 0.4090 \\ 0.4483 \\ 0.4880 \end{array}$	$\begin{array}{c} 0.1736 \\ 0.2005 \\ 0.2297 \\ 0.2611 \\ 0.2946 \\ 0.3300 \\ 0.3669 \\ 0.4052 \\ 0.4443 \\ 0.4840 \end{array}$	$\begin{array}{c} 0.1711 \\ 0.1977 \\ 0.2266 \\ 0.2578 \\ 0.2912 \\ 0.3264 \\ 0.3632 \\ 0.4013 \\ 0.4404 \\ 0.4801 \end{array}$	$0.3974 \\ 0.4364$	$\begin{array}{c} 0.1660 \\ 0.1922 \\ 0.2207 \\ 0.2514 \\ 0.2843 \\ 0.3192 \\ 0.3557 \\ 0.3936 \\ 0.4325 \\ 0.4721 \end{array}$	$\begin{array}{c} 0.2810 \\ 0.3156 \\ 0.3520 \\ 0.3897 \\ 0.4286 \end{array}$	$\begin{array}{c} 0.1867 \\ 0.2148 \\ 0.2451 \\ 0.2776 \\ 0.3121 \\ 0.3483 \\ 0.3859 \\ 0.4247 \end{array}$	$\begin{array}{c} -0.9 \\ -0.8 \\ -0.7 \\ -0.6 \\ -0.5 \\ -0.4 \\ -0.3 \\ -0.2 \\ -0.1 \\ -0.0 \end{array}$
ightarrow percentile rank $P(z  or less) = area left$	0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8	0.7580	$\begin{array}{c} 0.5040 \\ 0.5438 \\ 0.5832 \\ 0.6217 \\ 0.6591 \\ 0.6950 \\ 0.7291 \\ 0.7611 \\ 0.7910 \\ 0.8186 \end{array}$	$0.7642 \\ 0.7939$	$\begin{array}{c} 0.5120 \\ 0.5517 \\ 0.5910 \\ 0.6293 \\ 0.6664 \\ 0.7019 \\ 0.7357 \\ 0.7673 \\ 0.7967 \\ 0.8238 \end{array}$	$\begin{array}{c} 0.5160 \\ 0.5557 \\ 0.5948 \\ 0.6331 \\ 0.6700 \\ 0.7054 \\ 0.7389 \\ 0.7704 \\ 0.7995 \\ 0.8264 \end{array}$	0.5199 0.5596 0.5987 0.6368 0.6736 0.7088 0.7422 0.7734 0.8023 0.8289	$\begin{array}{c} 0.5239 \\ 0.5636 \\ 0.6026 \\ 0.6406 \\ 0.6772 \\ 0.7123 \\ 0.7454 \\ 0.7764 \\ 0.8051 \\ 0.8315 \end{array}$	$\begin{array}{c} 0.5279 \\ 0.5675 \\ 0.6064 \\ 0.6443 \\ 0.6808 \\ 0.7157 \\ 0.7486 \\ 0.7794 \\ 0.8079 \\ 0.8340 \end{array}$		$\begin{array}{c} 0.5359 \\ 0.5753 \\ 0.6141 \\ 0.6517 \\ 0.6879 \\ 0.7224 \\ 0.7549 \\ 0.7852 \\ 0.8133 \\ 0.8389 \end{array}$	$\begin{array}{c} 0.0 \\ 0.1 \\ 0.2 \\ 0.3 \\ 0.4 \\ 0.5 \\ 0.6 \\ 0.7 \\ 0.8 \\ 0.9 \end{array}$
use table to convert	1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8	$\begin{array}{c} 0.8413 \\ 0.8643 \\ 0.8849 \\ 0.9032 \\ 0.9192 \\ 0.9332 \\ 0.9452 \\ 0.9554 \\ 0.9641 \\ 0.9713 \end{array}$	$\begin{array}{c} 0.8438 \\ 0.8665 \\ 0.8869 \\ 0.9049 \\ 0.9207 \\ 0.9345 \\ 0.9463 \\ 0.9564 \\ 0.9649 \\ 0.9719 \end{array}$	$\begin{array}{c} 0.8461 \\ 0.8686 \\ 0.8888 \\ 0.9066 \\ 0.9222 \\ 0.9357 \\ 0.9474 \\ 0.9573 \\ 0.9656 \\ 0.9726 \end{array}$	$\begin{array}{c} 0.8485 \\ 0.8708 \\ 0.8907 \\ 0.9082 \\ 0.9236 \\ 0.9370 \\ 0.9484 \\ 0.9582 \\ 0.9664 \\ 0.9732 \end{array}$	$\begin{array}{c} 0.8508 \\ 0.8729 \\ 0.8925 \\ 0.9099 \\ 0.9251 \\ 0.9382 \\ 0.9495 \\ 0.9591 \\ 0.9671 \\ 0.9738 \end{array}$	0.8531 0.8749 0.8944 0.9115 0.9265 0.9394 0.9505 0.9599 0.9678 0.9744	$\begin{array}{c} 0.8554 \\ 0.8770 \\ 0.8962 \\ 0.9131 \\ 0.9279 \\ 0.9406 \\ 0.9515 \\ 0.9608 \\ 0.9686 \\ 0.9750 \end{array}$	$\begin{array}{c} 0.8577 \\ 0.8790 \\ 0.8980 \\ 0.9147 \\ 0.9292 \\ 0.9418 \\ 0.9525 \\ 0.9616 \\ 0.9693 \\ 0.9756 \end{array}$	$\begin{array}{c} 0.8599 \\ 0.8810 \\ 0.8997 \\ 0.9162 \\ 0.9306 \\ 0.9429 \\ 0.9535 \\ 0.9625 \\ 0.9699 \\ 0.9761 \end{array}$	$\begin{array}{c} 0.8621 \\ 0.8830 \\ 0.9015 \\ 0.9177 \\ 0.9319 \\ 0.9441 \\ 0.9545 \\ 0.9633 \\ 0.9706 \\ 0.9767 \end{array}$	1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8
d units $\frac{-\mu}{\sigma}$	2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9	0.9821 0.9861 0.9893 0.9918 0.9938 0.9953 0.9965	$\begin{array}{c} 0.9778 \\ 0.9826 \\ 0.9864 \\ 0.9896 \\ 0.9920 \\ 0.9940 \\ 0.9955 \\ 0.9966 \\ 0.9975 \\ 0.9982 \end{array}$	$\begin{array}{c} 0.9783 \\ 0.9830 \\ 0.9868 \\ 0.9898 \\ 0.9922 \\ 0.9941 \\ 0.9956 \\ 0.9967 \\ 0.9983 \end{array}$	$\begin{array}{c} 0.9788 \\ 0.9834 \\ 0.9871 \\ 0.9901 \\ 0.9925 \\ 0.9943 \\ 0.9957 \\ 0.9968 \\ 0.9977 \\ 0.9983 \end{array}$	$\begin{array}{c} 0.9793 \\ 0.9838 \\ 0.9875 \\ 0.9904 \\ 0.9927 \\ 0.9945 \\ 0.9959 \\ 0.9969 \\ 0.9977 \\ 0.9984 \end{array}$	0.9798 0.9842 0.9878 0.9906 0.9929 0.9946 0.9960 0.9970 0.9978 0.9984	$\begin{array}{c} 0.9803 \\ 0.9846 \\ 0.9881 \\ 0.9909 \\ 0.9931 \\ 0.9948 \\ 0.9961 \\ 0.9971 \\ 0.9985 \end{array}$	$\begin{array}{c} 0.9808 \\ 0.9850 \\ 0.9884 \\ 0.9911 \\ 0.9932 \\ 0.9949 \\ 0.9962 \\ 0.9972 \\ 0.9979 \\ 0.9985 \end{array}$	0.9812 0.9854 0.9887 0.9913 0.9934 0.9951 0.9963 0.9973 0.9980 0.9986	$\begin{array}{c} 0.9817 \\ 0.9857 \\ 0.9890 \\ 0.9916 \\ 0.9936 \\ 0.9952 \\ 0.9964 \\ 0.9974 \\ 0.9981 \\ 0.9986 \end{array}$	2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9
standar $z = \frac{x}{z}$	$\begin{array}{c} 3.0 \\ 3.1 \\ 3.2 \\ 3.3 \\ 3.4 \\ \geq 3.50 \end{array}$	0.9987 0.9990 0.9993 0.9995 0.9997 0.0001	0.9987 0.9991 0.9993 0.9995 0.9997	0.9987 0.9991 0.9994 0.9995 0.9997	0.9988 0.9991 0.9994 0.9996 0.9997	0.9988 0.9992 0.9994 0.9996 0.9997	0.9989 0.9992 0.9994 0.9996 0.9997	0.9989 0.9992 0.9994 0.9996 0.9997	0.9989 0.9992 0.9995 0.9996 0.9997	0.9990 0.9993 0.9995 0.9996 0.9997	0.9990 0.9993 0.9995 0.9997 0.9998	3.0 3.1 3.2 3.3 3.4
		0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	

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symmetry: P(-z or less) = 1 - P(z or less)

	$\alpha = 0.0100$	0.0200	0.0500	0.1000	0.2000	
$df = 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9$	$t_{\alpha\!/\!2} = \begin{array}{c} 63.66 \\ 9.92 \\ 5.84 \\ 4.60 \\ 4.03 \\ 3.71 \\ 3.50 \\ 3.36 \\ 3.25 \end{array}$	31.82 6.96 4.54 3.75 3.36 3.14 3.00 2.90 2.82	12.71 4.30 3.18 2.78 2.57 2.45 2.36 2.31 2.26	6.31 2.92 2.35 2.13 2.02 1.94 1.89 1.86 1.83	3.08 1.89 1.64 1.53 1.48 1.44 1.41 1.40 1.38	$df = 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9$
10 11 12 13 14 15 16 17 18 19	3.17 3.11 3.05 3.01 2.98 2.95 2.92 2.90 2.88 2.86	2.76 2.72 2.68 2.65 2.62 2.60 2.58 2.57 2.55 2.54	2.23 2.20 2.18 2.16 2.14 2.13 2.12 2.11 2.10 2.09	1.81 1.80 1.78 1.77 1.76 1.75 1.75 1.74 1.73	1.37 1.36 1.36 1.35 1.35 1.34 1.34 1.33 1.33	10 11 12 13 14 15 16 17 18
20 21 22 23 24 25 26 27 28 29	2.85 2.83 2.82 2.81 2.80 2.79 2.78 2.77 2.76 2.76	2.53 2.52 2.51 2.50 2.49 2.49 2.48 2.47 2.47	2.09 2.08 2.07 2.07 2.06 2.06 2.06 2.05 2.05 2.05	1.72 1.72 1.72 1.71 1.71 1.71 1.71 1.70 1.70	1.33 1.32 1.32 1.32 1.32 1.32 1.31 1.31	20 21 22 23 24 25 26 27 28 29
30 31 32 33 34 35 36 37 38 39	2.75 2.74 2.74 2.73 2.73 2.72 2.72 2.72 2.72 2.71 2.71	2.46 2.45 2.45 2.44 2.44 2.43 2.43 2.43 2.43	2.04 2.04 2.04 2.03 2.03 2.03 2.03 2.03 2.02 2.02	1.70 1.69 1.69 1.69 1.69 1.69 1.69 1.69	1.31 1.31 1.31 1.31 1.31 1.31 1.30 1.30	30 31 32 33 34 35 36 37 38 39
40 45 50 60 70 80 90	2.70 2.69 2.68 2.66 2.65 2.64 2.63	2.42 2.41 2.40 2.39 2.38 2.37 2.37	2.02 2.01 2.01 2.00 1.99 1.99	1.68 1.68 1.67 1.67 1.66 1.66	1.30 1.30 1.30 1.30 1.29 1.29 1.29	40 45 50 60 70 80 90
$ \begin{array}{c} 100 \\ 200 \\ 300 \\ 400 \\ 500 \\ \geq 600 \end{array} $	2.63 2.60 2.59 2.59 2.59 2.58	2.36 2.35 2.34 2.34 2.33 2.33	1.98 1.97 1.97 1.97 1.96 1.96	1.66 1.65 1.65 1.65 1.65 1.65	1.29 1.29 1.28 1.28 1.28 1.28	$ \begin{array}{c} 100 \\ 200 \\ 300 \\ 400 \\ 500 \\ \geq 600 \end{array} $

 $= 0.0100 \quad 0.0200$ 

0.0500

0.1000

0.2000

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# $F_Z$ table

	0.0	0.1	0.2	0.3	0.4	0.5	9.0	0.7	8.0	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	
0.00	.5359	.5753	.6141	.6517	6289.	.7224	.7549	.7852	.8133	.8389	.8621	.8830	.9015	.9177	.9319	.9441	.9545	.9633	9026.	2926.	.9817	.9857	0686.	.9916	.9936	.9952	.9964	.9974	.9981	9866	0666.	0.09
0.08	.5319	.5714	.6103	.6480	.6844	.7190	.7517	.7823	.8106	.8365	.8599	.8810	7668.	.9162	9300	.9429	.9535	.9625	6696.	.9761	.9812	.9854	7886.	.9913	.9934	.9951	.9963	.9973	0866.	9866.	0666.	0.08
0.02	.5279	.5675	.6064	.6443	8089.	.7157	.7486	.7794	8079	.8340	.8577	.8790	.8980	.9147	.9292	.9418	.9525	.9616	.9693	.9756	8086.	.9850	.9884	.9911	.9932	.9949	.9962	.9972	9979	.9985	.9989	0.07
0.06	.5239	.5636	.6026	.6406	.6772	.7123	.7454	.7764	.8051	.8315	.8554	.8770	.8962	.9131	.9279	.9406	.9515	8096.	9896.	.9750	.9803	.9846	.9881	6066.	.9931	.9948	.9961	.9971	9979	9985	6866.	90.0
0.02	.5199	.5596	.5987	8989.	.6736	.7088	.7422	.7734	.8023	.8289	.8531	.8749	.8944	.9115	.9265	.9394	.9505	.9599	.9678	.9744	.9798	.9842	.9878	9066.	9929	.9946	0966.	0799.	.9978	.9984	.9989	0.05
0.04	.5160	.5557	.5948	.6331	0029.	.7054	.7389	.7704	.7995	.8264	.8508	.8729	.8925	6606.	.9251	.9382	.9495	.9591	.9671	.9738	.9793	.9838	.9875	.9904	.9927	.9945	.9959	6966.	7266.	.9984	8866.	0.04
0.03	.5120	.5517	.5910	.6293	.6664	.7019	.7357	.7673	7967.	.8238	.8485	8708	8907	.9082	.9236	.9370	.9484	.9582	.9664	.9732	.9788	.9834	.9871	.9901	.9925	.9943	.9957	8966.	7266.	.9983	.9988	0.03
0.03	.5080	.5478	.5871	.6255	.6628	6985	.7324	.7642	.7939	.8212	.8461	9898.	.8888	9906.	.9222	.9357	.9474	.9573	.9656	.9726	.9783	.9830	8986.	8686.	.9922	.9941	.9956	2966.	9266.	.9983	7866.	0.02
0.01	.5040	.5438	.5832	.6217	.6591	.6950	.7291	.7611	.7910	.8186	.8438	8665	8869	.9049	.9207	.9345	.9463	.9564	.9649	.9719	.9778	.9826	.9864	9686.	.9920	.9940	.9955	9966.	.9975	.9982	7866.	0.01
0.00	.5000	5398	.5793	.6179	.6554	.6915	.7257	.7580	.7881	.8159	.8413	.8643	.8849	.9032	.9192	.9332	.9452	.9554	.9641	.9713	.9773	.9821	.9861	9893	.9918	.9938	.9953	.9965	.9974	.9981	7866.	0.00
	0.0	0.1	0.2	0.3	0.4	0.5	9.0	0.7	8.0	0.0	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	

### $F_Z$ table

	0.0	0.1	0.2	0.3	0.4	0.5	9.0	0.7	8.0	6.0	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	
0.09	.5359	.5753	.6141	.6517	6289.	.7224	.7549	.7852	.8133	.8389	.8621	.8830	.9015	.9177	.9319	.9441	.9545	.9633	9026.	2926.	.9817	7586.	0686.	.9916	9866.	.9952	.9964	.9974	.9981	9866.	0666:	0.09
0.08	5319.	5714.	.6103.	.6480 .	.6844 .	.7190.	.7517.	.7823 .	.8106.	.8365.	8599 .	.8810 .	. 7668.	9162.	.9306	.9429 .	.9535.	.9625.	. 6696.	.9761.	.9812 .	.9854.	. 9887	9913.	9934 .	.9951 .	. 9963 .	. 9973 .	. 9980	. 9866.	. 9990.	0.08
0.07	.5279.	.5675	.6064	.6443	. 8089.	.7157	.7486.	.7794	. 6208.	.8340 .	.8577	. 8790	. 8980	.9147	.9292	.9418	.9525 .	.9616 .	. 9693	. 9756 .	. 8086.	.9850	.9884	.9911	.9932	.9949 .	.9962	.9972	. 6266.	. 9985	. 6866.	0.07
90.0	.5239	.5636	.6026	.6406	.6772	.7123	.7454	.7764	.8051	.8315	.8554	.8770	.8962	.9131	.9279	.9406	.9515	8096.	9896.	.9750	.9803	.9846	.9881	6066.	.9931	.9948	.9961	.9971	9979	9985	6866.	0.06
0.05	.5199	.5596	5987	8989.	.6736	.7088	.7422	.7734	.8023	.8289	.8531	.8749	.8944	.9115	.9265	.9394	.9505	.9599	8296.	.9744	9798	.9842	.9878	9066.	.9929	.9946	0966.	9970	8266.	.9984	6866.	0.05
0.04	.5160	.5557	.5948	.6331	0029.	.7054	.7389	.7704	.7995	.8264	.8508	8729	.8925	6606.	.9251	.9382	.9495	.9591	.9671	9738	.9793	.9838	.9875	.9904	.9927	.9945	.9959	6966.	7266.	.9984	8866.	0.04
0.03	.5120	.5517	.5910	.6293	.6664	.7019	.7357	.7673	7962.	.8238	.8485	8028	7068.	.9082	.9236	.9370	.9484	.9582	.9664	.9732	9788	.9834	.9871	.9901	.9925	.9943	.9957	8966.	7266.	.9983	.9988	0.03
0.03	.5080	.5478	.5871	.6255	.6628	6985	.7324	.7642	.7939	.8212	.8461	9898.	.8888	9906.	.9222	.9357	.9474	.9573	9656	.9726	.9783	.9830	.9868	.9898	.9922	.9941	.9956	2966.	9266.	.9983	.9987	0.02
0.01	.5040	.5438	.5832	.6217	.6591	.6950	.7291	.7611	.7910	.8186	.8438	8665	8869	.9049	.9207	.9345	.9463	.9564	.9649	.9719	8778.	.9826	.9864	9686.	.9920	.9940	.9955	9966.	.9975	.9982	7866.	0.01
0.00	.5000	.5398	.5793	.6179	.6554	.6915	.7257	.7580	.7881	.8159	.8413	.8643	.8849	.9032	.9192	.9332	.9452	.9554	.9641	.9713	.9773	.9821	.9861	.9893	.9918	.9938	.9953	.9965	.9974	.9981	7866.	0.00
	0.0	0.1	0.2	0.3	0.4	0.5	9.0	0.7	8.0	0.0	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	

# $F_Z$ table

	0.0	0.1	0.2	0.3	0.4	0.5	9.0	0.7	8.0	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	
0.00	.5359	.5753	.6141	.6517	6289.	.7224	.7549	.7852	.8133	.8389	.8621	.8830	.9015	.9177	.9319	.9441	.9545	.9633	9026.	2926.	.9817	.9857	0686.	.9916	.9936	.9952	.9964	.9974	.9981	9866	0666.	0.09
0.08	.5319	.5714	.6103	.6480	.6844	.7190	.7517	.7823	.8106	.8365	.8599	.8810	7668.	.9162	9300	.9429	.9535	.9625	6696.	.9761	.9812	.9854	7886.	.9913	.9934	.9951	.9963	.9973	0866.	9866.	0666.	0.08
0.02	.5279	.5675	.6064	.6443	8089.	.7157	.7486	.7794	8079	.8340	.8577	.8790	.8980	.9147	.9292	.9418	.9525	.9616	.9693	.9756	8086.	.9850	.9884	.9911	.9932	.9949	.9962	.9972	9979	.9985	.9989	0.07
0.06	.5239	.5636	.6026	.6406	.6772	.7123	.7454	.7764	.8051	.8315	.8554	.8770	.8962	.9131	.9279	.9406	.9515	8096.	9896.	.9750	.9803	.9846	.9881	6066.	.9931	.9948	.9961	.9971	9979	9985	6866.	90.0
0.02	.5199	.5596	.5987	8989.	.6736	.7088	.7422	.7734	.8023	.8289	.8531	.8749	.8944	.9115	.9265	.9394	.9505	.9599	.9678	.9744	.9798	.9842	.9878	9066.	9929	.9946	0966.	0799.	.9978	.9984	.9989	0.05
0.04	.5160	.5557	.5948	.6331	0029.	.7054	.7389	.7704	.7995	.8264	.8508	.8729	.8925	6606.	.9251	.9382	.9495	.9591	.9671	.9738	.9793	.9838	.9875	.9904	.9927	.9945	.9959	6966.	7266.	.9984	8866.	0.04
0.03	.5120	.5517	.5910	.6293	.6664	.7019	.7357	.7673	7967.	.8238	.8485	8708	8907	.9082	.9236	.9370	.9484	.9582	.9664	.9732	.9788	.9834	.9871	.9901	.9925	.9943	.9957	8966.	7266.	.9983	.9988	0.03
0.03	.5080	.5478	.5871	.6255	.6628	6985	.7324	.7642	.7939	.8212	.8461	9898.	.8888	9906:	.9222	.9357	.9474	.9573	.9656	.9726	.9783	.9830	8986.	8686.	.9922	.9941	.9956	2966.	9766.	.9983	7866.	0.02
0.01	.5040	.5438	.5832	.6217	.6591	.6950	.7291	.7611	.7910	.8186	.8438	8665	8869	.9049	.9207	.9345	.9463	.9564	.9649	.9719	.9778	.9826	.9864	9686.	.9920	.9940	.9955	9966.	.9975	.9982	7866.	0.01
0.00	.5000	5398	.5793	.6179	.6554	.6915	.7257	.7580	.7881	.8159	.8413	.8643	.8849	.9032	.9192	.9332	.9452	.9554	.9641	.9713	.9773	.9821	.9861	9893	.9918	.9938	.9953	.9965	.9974	.9981	7866.	0.00
	0.0	0.1	0.2	0.3	0.4	0.5	9.0	0.7	8.0	0.0	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	

### $F_Z$ table

	0.0	0.1	0.2	0.3	0.4	0.5	9.0	0.7	8.0	6.0	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	
0.09	.5359	.5753	.6141	.6517	6289.	.7224	.7549	.7852	.8133	.8389	.8621	.8830	.9015	.9177	.9319	.9441	.9545	.9633	9026.	2926.	.9817	.9857	0686.	.9916	9866.	.9952	.9964	.9974	.9981	9866.	0666:	0.09
0.08	5319.	5714.	.6103.	.6480 .	.6844 .	.7190.	.7517.	.7823 .	.8106.	.8365.	8599 .	.8810 .	. 7668.	9162.	.9306	.9429 .	.9535.	.9625.	. 6696.	.9761.	.9812 .	.9854.	. 9887	9913.	9934 .	.9951 .	. 9963 .	. 9973 .	. 9980	. 9866.	. 9990.	0.08
0.07	.5279.	.5675	.6064	.6443	. 8089.	.7157	.7486.	.7794	. 6208.	.8340 .	.8577	. 8790	. 8980	.9147	.9292	.9418	.9525 .	.9616 .	. 9693	. 9756	. 8086.	.9850	.9884	.9911	.9932	.9949 .	.9962	.9972	. 6266.	. 9985	. 6866.	0.07
90.0	.5239	.5636	.6026	.6406	.6772	.7123	.7454	.7764	.8051	.8315	.8554	.8770	.8962	.9131	.9279	.9406	.9515	8096.	9896.	.9750	.9803	.9846	.9881	6066.	.9931	.9948	.9961	.9971	9979	9985	6866.	0.06
0.05	.5199	.5596	5987	8989.	.6736	.7088	.7422	.7734	.8023	.8289	.8531	.8749	.8944	.9115	.9265	.9394	.9505	.9599	8296.	.9744	9798	.9842	.9878	9066.	.9929	.9946	0966.	9970	8266.	.9984	6866.	0.05
0.04	.5160	.5557	.5948	.6331	0029.	.7054	.7389	.7704	.7995	.8264	.8508	8729	.8925	6606.	.9251	.9382	.9495	.9591	.9671	9738	.9793	.9838	.9875	.9904	.9927	.9945	.9959	6966.	7266.	.9984	8866.	0.04
0.03	.5120	.5517	.5910	.6293	.6664	.7019	.7357	.7673	7962.	.8238	.8485	8028	7068.	.9082	.9236	.9370	.9484	.9582	.9664	.9732	9788	.9834	.9871	.9901	.9925	.9943	.9957	8966.	7266.	.9983	.9988	0.03
0.03	.5080	.5478	.5871	.6255	.6628	6985	.7324	.7642	.7939	.8212	.8461	9898.	.8888	9906.	.9222	.9357	.9474	.9573	9656	.9726	.9783	.9830	.9868	.9898	.9922	.9941	.9956	2966.	9266.	.9983	.9987	0.02
0.01	.5040	.5438	.5832	.6217	.6591	.6950	.7291	.7611	.7910	.8186	.8438	8665	8869	.9049	.9207	.9345	.9463	.9564	.9649	.9719	8778.	.9826	.9864	9686.	.9920	.9940	.9955	9966.	.9975	.9982	7866.	0.01
0.00	.5000	.5398	.5793	.6179	.6554	.6915	.7257	.7580	.7881	.8159	.8413	.8643	.8849	.9032	.9192	.9332	.9452	.9554	.9641	.9713	.9773	.9821	.9861	.9893	.9918	.9938	.9953	.9965	.9974	.9981	7866.	0.00
	0.0	0.1	0.2	0.3	0.4	0.5	9.0	0.7	8.0	0.0	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	