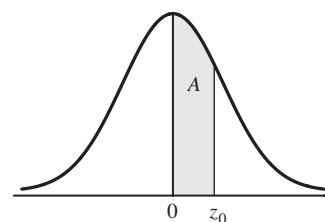


# Areas Under the Standard Normal Curve



The value of  $A$  is the area under the standard normal curve between  $z = 0$  and  $z = z_0$  for  $z_0 \geq 0$ . Areas for negative values of  $z_0$  are obtained by symmetry.

| $z_0$ | $A$    | $z_0$ | $A$    | $z_0$ | $A$    | $z_0$ | $A$    |
|-------|--------|-------|--------|-------|--------|-------|--------|
| 0.00  | 0.0000 | 0.43  | 0.1664 | 0.86  | 0.3051 | 1.29  | 0.4015 |
| 0.01  | 0.0040 | 0.44  | 0.1700 | 0.87  | 0.3078 | 1.30  | 0.4032 |
| 0.02  | 0.0080 | 0.45  | 0.1736 | 0.88  | 0.3106 | 1.31  | 0.4049 |
| 0.03  | 0.0120 | 0.46  | 0.1772 | 0.89  | 0.3133 | 1.32  | 0.4066 |
| 0.04  | 0.0160 | 0.47  | 0.1808 | 0.90  | 0.3159 | 1.33  | 0.4082 |
| 0.05  | 0.0199 | 0.48  | 0.1844 | 0.91  | 0.3186 | 1.34  | 0.4099 |
| 0.06  | 0.0239 | 0.49  | 0.1879 | 0.92  | 0.3212 | 1.35  | 0.4115 |
| 0.07  | 0.0279 | 0.50  | 0.1915 | 0.93  | 0.3238 | 1.36  | 0.4131 |
| 0.08  | 0.0319 | 0.51  | 0.1950 | 0.94  | 0.3264 | 1.37  | 0.4147 |
| 0.09  | 0.0359 | 0.52  | 0.1985 | 0.95  | 0.3289 | 1.38  | 0.4162 |
| 0.10  | 0.0398 | 0.53  | 0.2019 | 0.96  | 0.3315 | 1.39  | 0.4177 |
| 0.11  | 0.0438 | 0.54  | 0.2054 | 0.97  | 0.3340 | 1.40  | 0.4192 |
| 0.12  | 0.0478 | 0.55  | 0.2088 | 0.98  | 0.3365 | 1.41  | 0.4207 |
| 0.13  | 0.0517 | 0.56  | 0.2123 | 0.99  | 0.3389 | 1.42  | 0.4222 |
| 0.14  | 0.0557 | 0.57  | 0.2157 | 1.00  | 0.3413 | 1.43  | 0.4236 |
| 0.15  | 0.0596 | 0.58  | 0.2190 | 1.01  | 0.3438 | 1.44  | 0.4251 |
| 0.16  | 0.0636 | 0.59  | 0.2224 | 1.02  | 0.3461 | 1.45  | 0.4265 |
| 0.17  | 0.0675 | 0.60  | 0.2257 | 1.03  | 0.3485 | 1.46  | 0.4279 |
| 0.18  | 0.0714 | 0.61  | 0.2291 | 1.04  | 0.3508 | 1.47  | 0.4292 |
| 0.19  | 0.0754 | 0.62  | 0.2324 | 1.05  | 0.3531 | 1.48  | 0.4306 |
| 0.20  | 0.0793 | 0.63  | 0.2357 | 1.06  | 0.3554 | 1.49  | 0.4319 |
| 0.21  | 0.0832 | 0.64  | 0.2389 | 1.07  | 0.3577 | 1.50  | 0.4332 |
| 0.22  | 0.0871 | 0.65  | 0.2422 | 1.08  | 0.3599 | 1.51  | 0.4345 |
| 0.23  | 0.0910 | 0.66  | 0.2454 | 1.09  | 0.3621 | 1.52  | 0.4357 |
| 0.24  | 0.0948 | 0.67  | 0.2486 | 1.10  | 0.3643 | 1.53  | 0.4370 |
| 0.25  | 0.0987 | 0.68  | 0.2517 | 1.11  | 0.3665 | 1.54  | 0.4382 |
| 0.26  | 0.1026 | 0.69  | 0.2549 | 1.12  | 0.3686 | 1.55  | 0.4394 |
| 0.27  | 0.1064 | 0.70  | 0.2580 | 1.13  | 0.3708 | 1.56  | 0.4406 |
| 0.28  | 0.1103 | 0.71  | 0.2611 | 1.14  | 0.3729 | 1.57  | 0.4418 |
| 0.29  | 0.1141 | 0.72  | 0.2642 | 1.15  | 0.3749 | 1.58  | 0.4429 |
| 0.30  | 0.1179 | 0.73  | 0.2673 | 1.16  | 0.3770 | 1.59  | 0.4441 |
| 0.31  | 0.1217 | 0.74  | 0.2704 | 1.17  | 0.3790 | 1.60  | 0.4452 |
| 0.32  | 0.1255 | 0.75  | 0.2734 | 1.18  | 0.3810 | 1.61  | 0.4463 |
| 0.33  | 0.1293 | 0.76  | 0.2764 | 1.19  | 0.3830 | 1.62  | 0.4474 |
| 0.34  | 0.1331 | 0.77  | 0.2794 | 1.20  | 0.3849 | 1.63  | 0.4484 |
| 0.35  | 0.1368 | 0.78  | 0.2823 | 1.21  | 0.3869 | 1.64  | 0.4495 |
| 0.36  | 0.1406 | 0.79  | 0.2852 | 1.22  | 0.3888 | 1.65  | 0.4505 |
| 0.37  | 0.1443 | 0.80  | 0.2881 | 1.23  | 0.3907 | 1.66  | 0.4515 |
| 0.38  | 0.1480 | 0.81  | 0.2910 | 1.24  | 0.3925 | 1.67  | 0.4525 |
| 0.39  | 0.1517 | 0.82  | 0.2939 | 1.25  | 0.3944 | 1.68  | 0.4535 |
| 0.40  | 0.1554 | 0.83  | 0.2967 | 1.26  | 0.3962 | 1.69  | 0.4545 |
| 0.41  | 0.1591 | 0.84  | 0.2995 | 1.27  | 0.3980 | 1.70  | 0.4554 |
| 0.42  | 0.1628 | 0.85  | 0.3023 | 1.28  | 0.3997 | 1.71  | 0.4564 |

| $z_0$ | $A$    | $z_0$ | $A$    | $z_0$ | $A$    | $z_0$ | $A$    |
|-------|--------|-------|--------|-------|--------|-------|--------|
| 1.72  | 0.4573 | 2.26  | 0.4881 | 2.80  | 0.4974 | 3.34  | 0.4996 |
| 1.73  | 0.4582 | 2.27  | 0.4884 | 2.81  | 0.4975 | 3.35  | 0.4996 |
| 1.74  | 0.4591 | 2.28  | 0.4887 | 2.82  | 0.4976 | 3.36  | 0.4996 |
| 1.75  | 0.4599 | 2.29  | 0.4890 | 2.83  | 0.4977 | 3.37  | 0.4996 |
| 1.76  | 0.4608 | 2.30  | 0.4893 | 2.84  | 0.4977 | 3.38  | 0.4996 |
| 1.77  | 0.4616 | 2.31  | 0.4896 | 2.85  | 0.4978 | 3.39  | 0.4997 |
| 1.78  | 0.4625 | 2.32  | 0.4898 | 2.86  | 0.4979 | 3.40  | 0.4997 |
| 1.79  | 0.4633 | 2.33  | 0.4901 | 2.87  | 0.4979 | 3.41  | 0.4997 |
| 1.80  | 0.4641 | 2.34  | 0.4904 | 2.88  | 0.4980 | 3.42  | 0.4997 |
| 1.81  | 0.4649 | 2.35  | 0.4906 | 2.89  | 0.4981 | 3.43  | 0.4997 |
| 1.82  | 0.4656 | 2.36  | 0.4909 | 2.90  | 0.4981 | 3.44  | 0.4997 |
| 1.83  | 0.4664 | 2.37  | 0.4911 | 2.91  | 0.4982 | 3.45  | 0.4997 |
| 1.84  | 0.4671 | 2.38  | 0.4913 | 2.92  | 0.4982 | 3.46  | 0.4997 |
| 1.85  | 0.4678 | 2.39  | 0.4916 | 2.93  | 0.4983 | 3.47  | 0.4997 |
| 1.86  | 0.4686 | 2.40  | 0.4918 | 2.94  | 0.4984 | 3.48  | 0.4997 |
| 1.87  | 0.4693 | 2.41  | 0.4920 | 2.95  | 0.4984 | 3.49  | 0.4998 |
| 1.88  | 0.4699 | 2.42  | 0.4922 | 2.96  | 0.4985 | 3.50  | 0.4998 |
| 1.89  | 0.4706 | 2.43  | 0.4925 | 2.97  | 0.4985 | 3.51  | 0.4998 |
| 1.90  | 0.4713 | 2.44  | 0.4927 | 2.98  | 0.4986 | 3.52  | 0.4998 |
| 1.91  | 0.4719 | 2.45  | 0.4929 | 2.99  | 0.4986 | 3.53  | 0.4998 |
| 1.92  | 0.4726 | 2.46  | 0.4931 | 3.00  | 0.4987 | 3.54  | 0.4998 |
| 1.93  | 0.4732 | 2.47  | 0.4932 | 3.01  | 0.4987 | 3.55  | 0.4998 |
| 1.94  | 0.4738 | 2.48  | 0.4934 | 3.02  | 0.4987 | 3.56  | 0.4998 |
| 1.95  | 0.4744 | 2.49  | 0.4936 | 3.03  | 0.4988 | 3.57  | 0.4998 |
| 1.96  | 0.4750 | 2.50  | 0.4938 | 3.04  | 0.4988 | 3.58  | 0.4998 |
| 1.97  | 0.4756 | 2.51  | 0.4940 | 3.05  | 0.4989 | 3.59  | 0.4998 |
| 1.98  | 0.4761 | 2.52  | 0.4941 | 3.06  | 0.4989 | 3.60  | 0.4998 |
| 1.99  | 0.4767 | 2.53  | 0.4943 | 3.07  | 0.4989 | 3.61  | 0.4998 |
| 2.00  | 0.4772 | 2.54  | 0.4945 | 3.08  | 0.4990 | 3.62  | 0.4999 |
| 2.01  | 0.4778 | 2.55  | 0.4946 | 3.09  | 0.4990 | 3.63  | 0.4999 |
| 2.02  | 0.4783 | 2.56  | 0.4948 | 3.10  | 0.4990 | 3.64  | 0.4999 |
| 2.03  | 0.4788 | 2.57  | 0.4949 | 3.11  | 0.4991 | 3.65  | 0.4999 |
| 2.04  | 0.4793 | 2.58  | 0.4951 | 3.12  | 0.4991 | 3.66  | 0.4999 |
| 2.05  | 0.4798 | 2.59  | 0.4952 | 3.13  | 0.4991 | 3.67  | 0.4999 |
| 2.06  | 0.4803 | 2.60  | 0.4953 | 3.14  | 0.4992 | 3.68  | 0.4999 |
| 2.07  | 0.4808 | 2.61  | 0.4955 | 3.15  | 0.4992 | 3.69  | 0.4999 |
| 2.08  | 0.4812 | 2.62  | 0.4956 | 3.16  | 0.4992 | 3.70  | 0.4999 |
| 2.09  | 0.4817 | 2.63  | 0.4957 | 3.17  | 0.4992 | 3.71  | 0.4999 |
| 2.10  | 0.4821 | 2.64  | 0.4959 | 3.18  | 0.4993 | 3.72  | 0.4999 |
| 2.11  | 0.4826 | 2.65  | 0.4960 | 3.19  | 0.4993 | 3.73  | 0.4999 |
| 2.12  | 0.4830 | 2.66  | 0.4961 | 3.20  | 0.4993 | 3.74  | 0.4999 |
| 2.13  | 0.4834 | 2.67  | 0.4962 | 3.21  | 0.4993 | 3.75  | 0.4999 |
| 2.14  | 0.4838 | 2.68  | 0.4963 | 3.22  | 0.4994 | 3.76  | 0.4999 |
| 2.15  | 0.4842 | 2.69  | 0.4964 | 3.23  | 0.4994 | 3.77  | 0.4999 |
| 2.16  | 0.4846 | 2.70  | 0.4965 | 3.24  | 0.4994 | 3.78  | 0.4999 |
| 2.17  | 0.4850 | 2.71  | 0.4966 | 3.25  | 0.4994 | 3.79  | 0.4999 |
| 2.18  | 0.4854 | 2.72  | 0.4967 | 3.26  | 0.4994 | 3.80  | 0.4999 |
| 2.19  | 0.4857 | 2.73  | 0.4968 | 3.27  | 0.4995 | 3.81  | 0.4999 |
| 2.20  | 0.4861 | 2.74  | 0.4969 | 3.28  | 0.4995 | 3.82  | 0.4999 |
| 2.21  | 0.4864 | 2.75  | 0.4970 | 3.29  | 0.4995 | 3.83  | 0.4999 |
| 2.22  | 0.4868 | 2.76  | 0.4971 | 3.30  | 0.4995 | 3.84  | 0.4999 |
| 2.23  | 0.4871 | 2.77  | 0.4972 | 3.31  | 0.4995 | 3.85  | 0.4999 |
| 2.24  | 0.4875 | 2.78  | 0.4973 | 3.32  | 0.4995 | 3.86  | 0.4999 |
| 2.25  | 0.4878 | 2.79  | 0.4974 | 3.33  | 0.4996 |       |        |