## Statistical Power of the Z Test

| Z | α = .05 | | α = .01 | |
|---|---|---|---|---|
| | 2-tail | 1-tail | 2-tail | 1-tail |
| 1.0 | 0.170 | 0.260 | 0.058 | 0.092 |
| 1.1 | 0.196 | 0.293 | 0.070 | 0.110 |
| 1.2 | 0.224 | 0.328 | 0.085 | 0.130 |
| 1.3 | 0.255 | 0.365 | 0.101 | 0.152 |
| 1.4 | 0.288 | 0.403 | 0.120 | 0.177 |
| 1.5 | 0.323 | 0.442 | 0.141 | 0.204 |
| 1.6 | 0.360 | 0.482 | 0.165 | 0.234 |
| 1.7 | 0.398 | 0.522 | 0.191 | 0.266 |
| 1.8 | 0.437 | 0.562 | 0.219 | 0.299 |
| 1.9 | 0.476 | 0.601 | 0.250 | 0.335 |
| 2.0 | 0.516 | 0.639 | 0.282 | 0.372 |
| 2.1 | 0.556 | 0.675 | 0.317 | 0.410 |
| 2.2 | 0.595 | 0.711 | 0.354 | 0.450 |
| 2.3 | 0.633 | 0.744 | 0.391 | 0.489 |
| 2.4 | 0.670 | 0.775 | 0.430 | 0.529 |
| 2.5 | 0.705 | 0.804 | 0.470 | 0.569 |
| 2.6 | 0.739 | 0.830 | 0.510 | 0.608 |
| 2.7 | 0.770 | 0.854 | 0.549 | 0.646 |
| 2.8 | 0.800 | 0.876 | 0.589 | 0.682 |
| 2.9 | 0.826 | 0.895 | 0.627 | 0.717 |
| 3.0 | 0.851 | 0.912 | 0.664 | 0.750 |
| 3.1 | 0.873 | 0.927 | 0.700 | 0.780 |
| 3.2 | 0.893 | 0.940 | 0.734 | 0.809 |
| 3.3 | 0.910 | 0.951 | 0.766 | 0.835 |
| 3.4 | 0.925 | 0.960 | 0.795 | 0.859 |
| 3.5 | 0.938 | 0.968 | 0.822 | 0.880 |
| 3.6 | 0.950 | 0.975 | 0.847 | 0.899 |
| 3.7 | 0.959 | 0.980 | 0.870 | 0.915 |
| 3.8 | 0.967 | 0.984 | 0.890 | 0.930 |
| 3.9 | 0.974 | 0.988 | 0.907 | 0.942 |
| 4.0 | 0.979 | 0.991 | 0.923 | 0.953 |