1. If Z is norm (mean = 0, sd = 1)

Find P(Z > 2.64)

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| --- |
| > pnorm(2.64,lower.tail=FALSE)  [1] 0.004145301 |
|  |
| |  | | --- | | > | |

Find P(|Z| > 1.39)

> pnorm(1.39,lower.tail=FALSE)

[1] 0.08226444

> pnorm(-1.39,lower.tail=FALSE)

[1] 0.9177356

2. Suppose p = the proportion of students who are admitted to the graduate school of the University of California at Berkeley, and suppose that a public relation officer boasts that UCB has historically had a 40% acceptance rate for its graduate school. Consider the data stored in the table UCBAdmissions from 1973. Assuming these observations constituted a simple random sample, are they consistent with the officerâ..s claim, or do they provide evidence that the acceptance rate was significantly less than 40%? Use an Î± = 0.01 significance level.