Assignment 5\_1

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

a) Find P(Z > 2.64)

b) Find P(|Z| > 1.39)

Answer:

a) z<-pnorm(2.64, 0, 1)

z<-z-1

z

b) z<-pnorm(-1.39, 0, 1)

z<-z\*2

z

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.