1. Create the vectors

a<- 2:30

b<- seq(30,2,-1)

c<- c(1:30,seq(29,1,-1))

d<- c(4,6,3)

dev<- c(a,b,c,d)

e<- rep(c(5,6,7),10)

f<- rep(5:7, c(11,10,10))

g<- rep(c(4,6,3), c(10,20,30))

1. Create a vector of the values of eX sin(x) at x = 3, 3.1, 3.2, , 6.

x<- seq(3,6, .1)

New<- exp(x) \* sin(x)

1. Execute the following lines which create two vectors of random integers which are chosen with replacement from the integers 0, 1, : : : , 999. Both vectors have length 250.

set.seed(100)

x <- Sample (0:999, 250, replace=T)

y <- Sample (0:999, 250, replace=T)

a<- y[y>500]

b<- which (y>700)

c<- (x=y[which(y>400)])

d<- max(y<200)

e<-x[1:250]%%2

g<- x[1:248] + 2\*x[2:249] - x[3:250]

4.) Use the function paste to create thefollowing character vectors of length 30:

pest<- paste("Label",1:30, sep=" ")

best<- paste("FN",1:30, sep="")

5.) Compound interest can be computed using the formula

CI<- 10000\*(1+11.5/100)\*15

6.) Generate the following matrices.

a<-c(1,101,201,301)

b<- c(2,102,202,302)

c<- c(3,103,203,303)

d<- c(4,104,204,304)

e<- c(5,105,205,305)

mat<- matrix(c(a,b,c,d,e),nrow=5, byrow=T)