REG NO:727822TUAD046
EXP:1
PROBLEM FOR PRACTICE

PROBLEM:1
INPUT:
X~binom(20,0.1)
dbinom(0,20,0.1)
pbinom(3,20,0.1,lower.tail=TRUE)
dbinom(3,20,0.1)
OUTPUT:
  > X~binom(20,0.1)
X ~ binom(20, 0.1)
> dbinom(0,20,0.1)
[1] 0.1215767
> pbinom(3,20,0.1,lower.tail=TRUE)
[1] 0.8670467
> dbinom(3,20,0.1)
[1] 0.1901199

PROBLEM:2
INPUT:
  X~binom(8,0.17)
dbinom(3,8,0.17)
pbinom(1,8,0.17,lower.tail=FALSE)
pbinom(1,8,0.17,lower.tail=TRUE)
OUTPUT:
  > X~binom(8,0.17)
X ~ binom(8, 0.17)
> dbinom(3,8,0.17)
[1] 0.108374
> pbinom(1,8,0.17,lower.tail=FALSE)
[1] 0.4057205
> pbinom(1,8,0.17,lower.tail=TRUE)
[1] 0.5942795

PROBLEM:3
INPUT:
  X<-Binom(100,0.5)
E(X)
var(X)
OUTPUT:
  > X<-Binom(100,0.5)
> E(X)
[1] 50
> var(X)
[1] 25

PROBLEM:4
INPUT:
  X<-Binom(20,1/4)
E(X)
E(5*X-2)
var(X)
sd(X)
OUTPUT:
  > X<-Binom(20,1/4)
> E(X)
[1] 5
> E(5*X-2)
[1] 23
> var(X)
[1] 3.75

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> sd(X)
[1] 1.936492
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