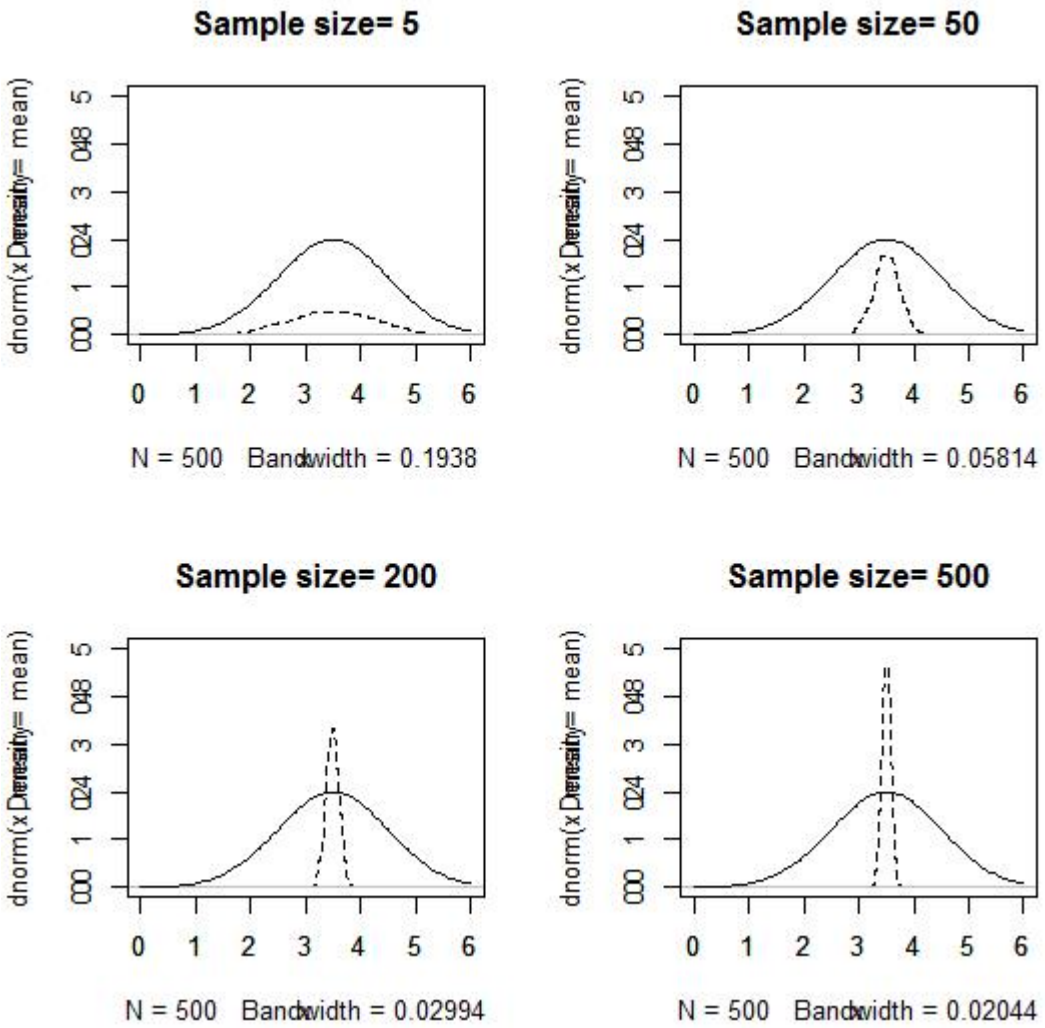
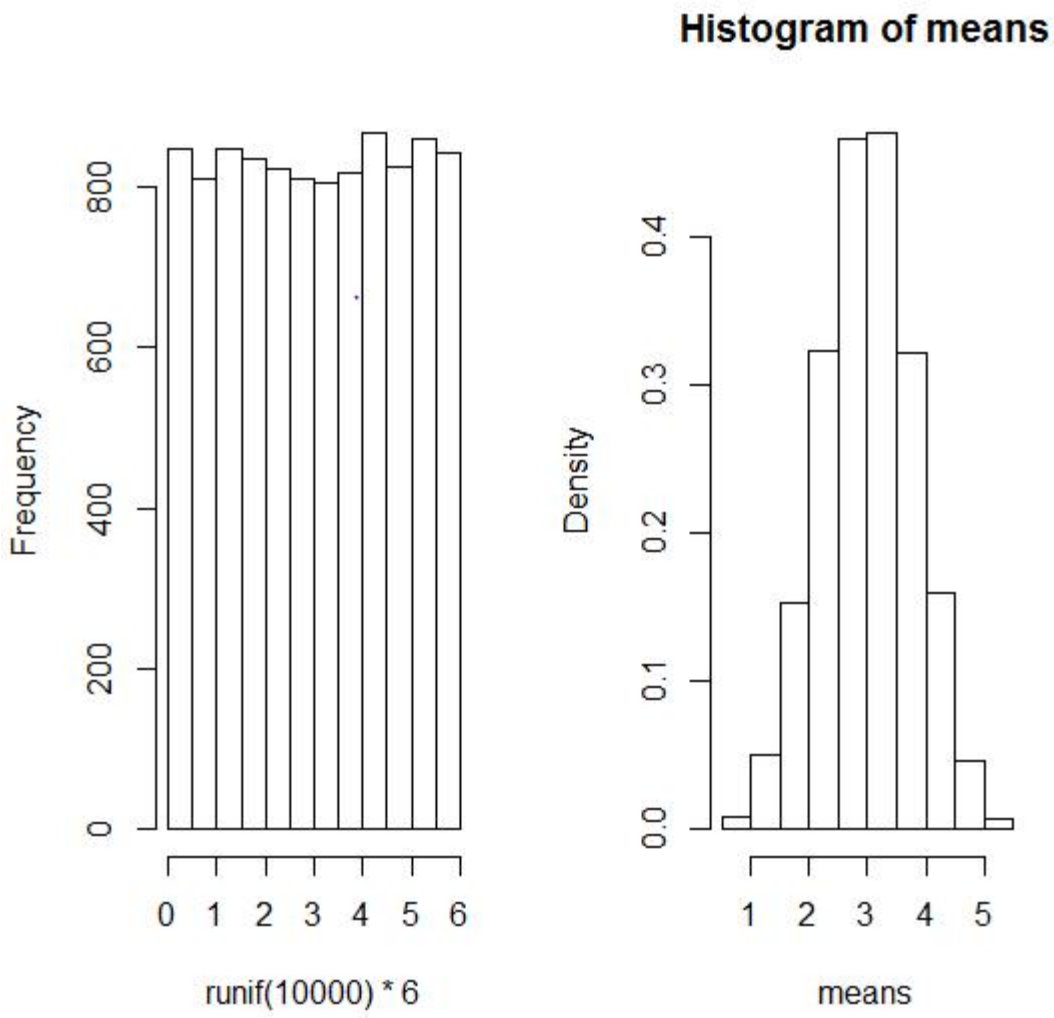



```
#my r-code
n <- c(5, 50, 200, 500)

r <- 500
xbar <- rep(0, r)
par(mfrow=c(2, 2))
for (i in 1:4)
{
  for (j in 1:r)
  {
    xbar[j] = mean(sample(6,n[i],replace=TRUE))
  }
  plot(density(xbar), main=paste("Sample size=", n[i]), xlim=c(0, 6)
       , ylim = c(0, 5), lty=2)
  par(new=T)
  mean = 3.5
```

```
  curve(dnorm(x, mean=mean), xlim=c(0, 6), ylim=c(0, 1))
}
```




```
#class r-code
hist(runif(10000)*6,main="")
means = numeric(10000)
for (i in 1: 10000) {
means[i] = mean(runif(5)*6)
}
hist(means,freq=FALSE)
mean(means)
sd(means)
xv=seq(0,6,0.1)
```

```
yv = dnorm(xv, mean=mean(means), sd=sd(means))
lines(xv,yv)
```