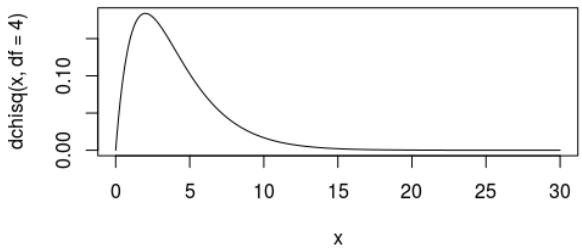
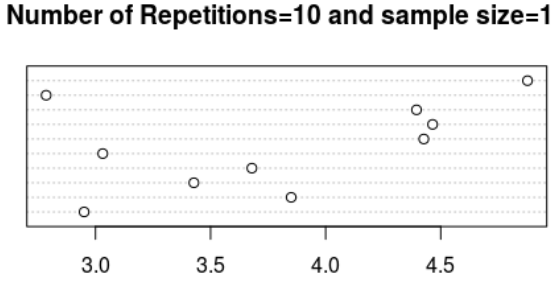
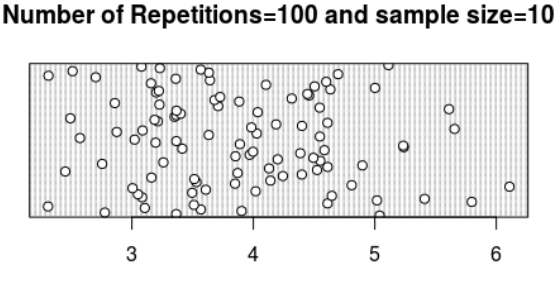
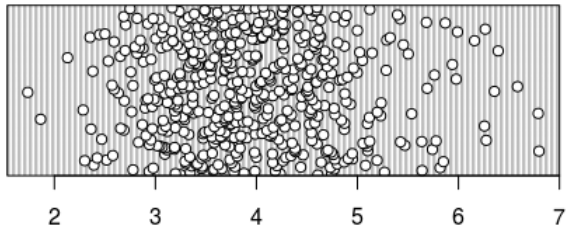
```
x <- seq(0, 30, 0.1)
plot(x, dchisq(x, df=4), type="l")

sample_size <- c(10,25,50,75,100) #Given sample sizes
repeat_count <- c(10,100,500,1000,10000) #Given repeat values

set.seed(100)

for (j in sample_size){

 for (i in repeat_count){

  print('Plotting for new Sample Size and Repeat values')
  sample_means = c()

  for(k in 1: i){
   sample = rchisq(n=j, df = 4)
   sample_means <- c(sample_means, mean(c(sample)))
  }

  str= sprintf("Number of Repetitions=%d and sample size=%d", i, j)
  dotchart(sample_means, main = str)
 }
}
```



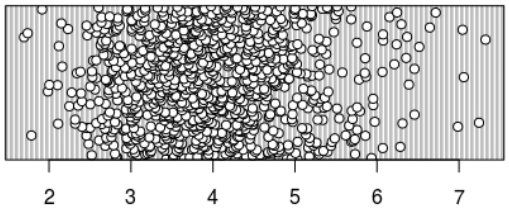




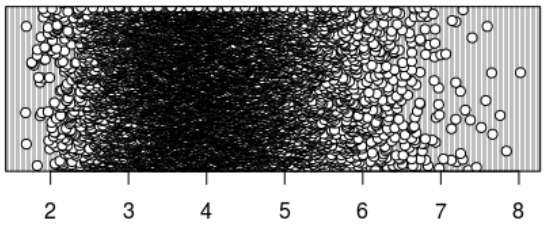
Number of Repetitions=500 and sample size=10



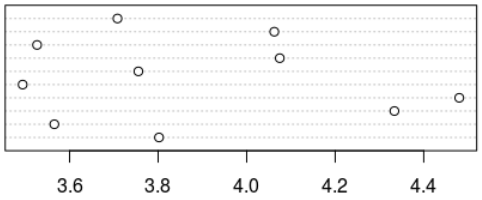
Number of Repetitions=1000 and sample size=10



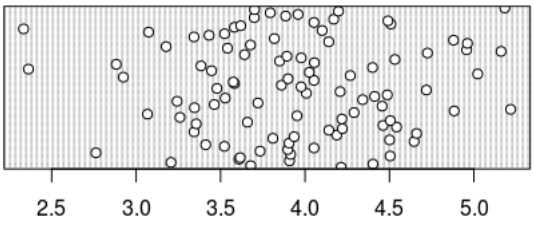
Number of Repetitions=10000 and sample size=10



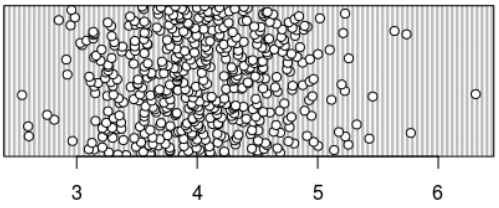
Number of Repetitions=10 and sample size=25



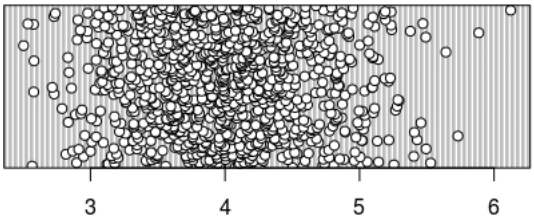
Number of Repetitions=100 and sample size=25



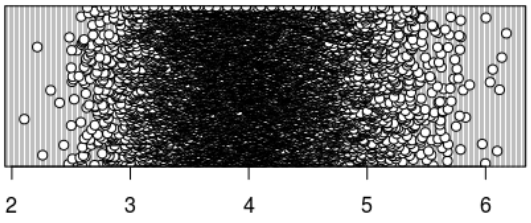
Number of Repetitions=500 and sample size=25



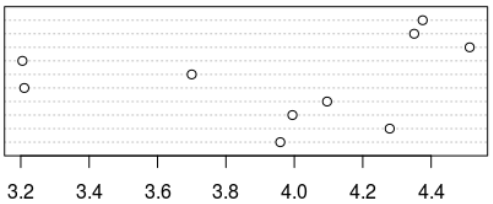
Number of Repetitions=1000 and sample size=25



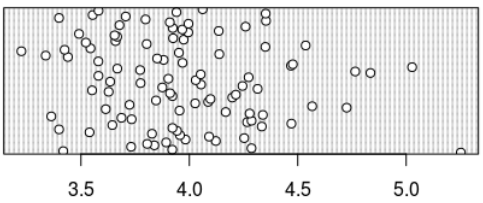
Number of Repetitions=10000 and sample size=25



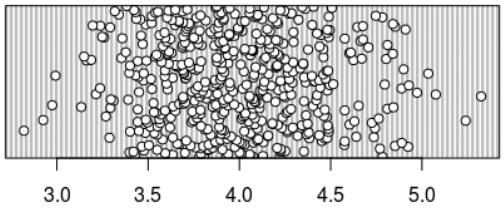
Number of Repetitions=10 and sample size=50



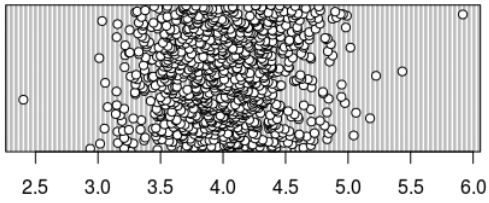
Number of Repetitions=100 and sample size=50



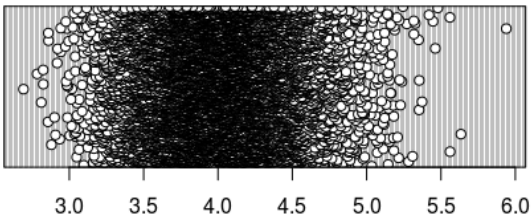
Number of Repetitions=500 and sample size=50



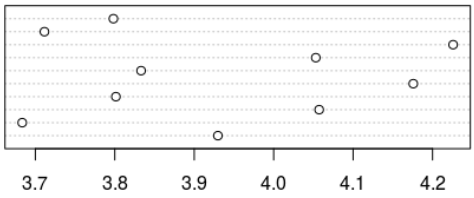
Number of Repetitions=1000 and sample size=50



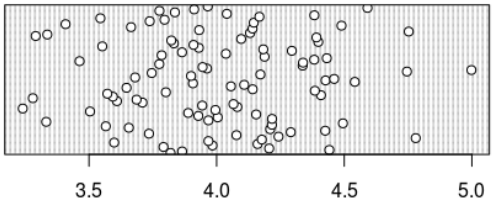
Number of Repetitions=10000 and sample size=50



Number of Repetitions=10 and sample size=75



Number of Repetitions=100 and sample size=75



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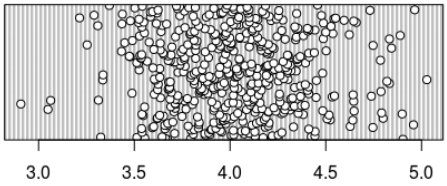

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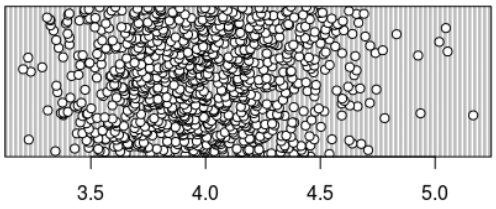
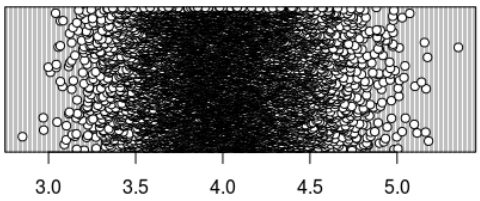
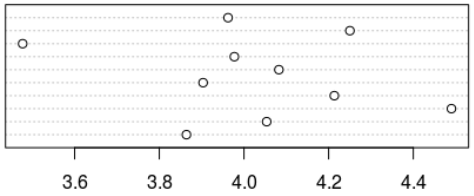


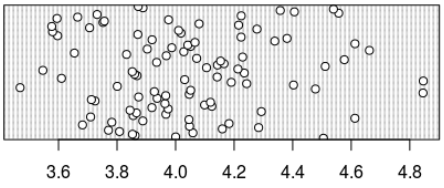
Number of Repetitions=10000 and sample size=75

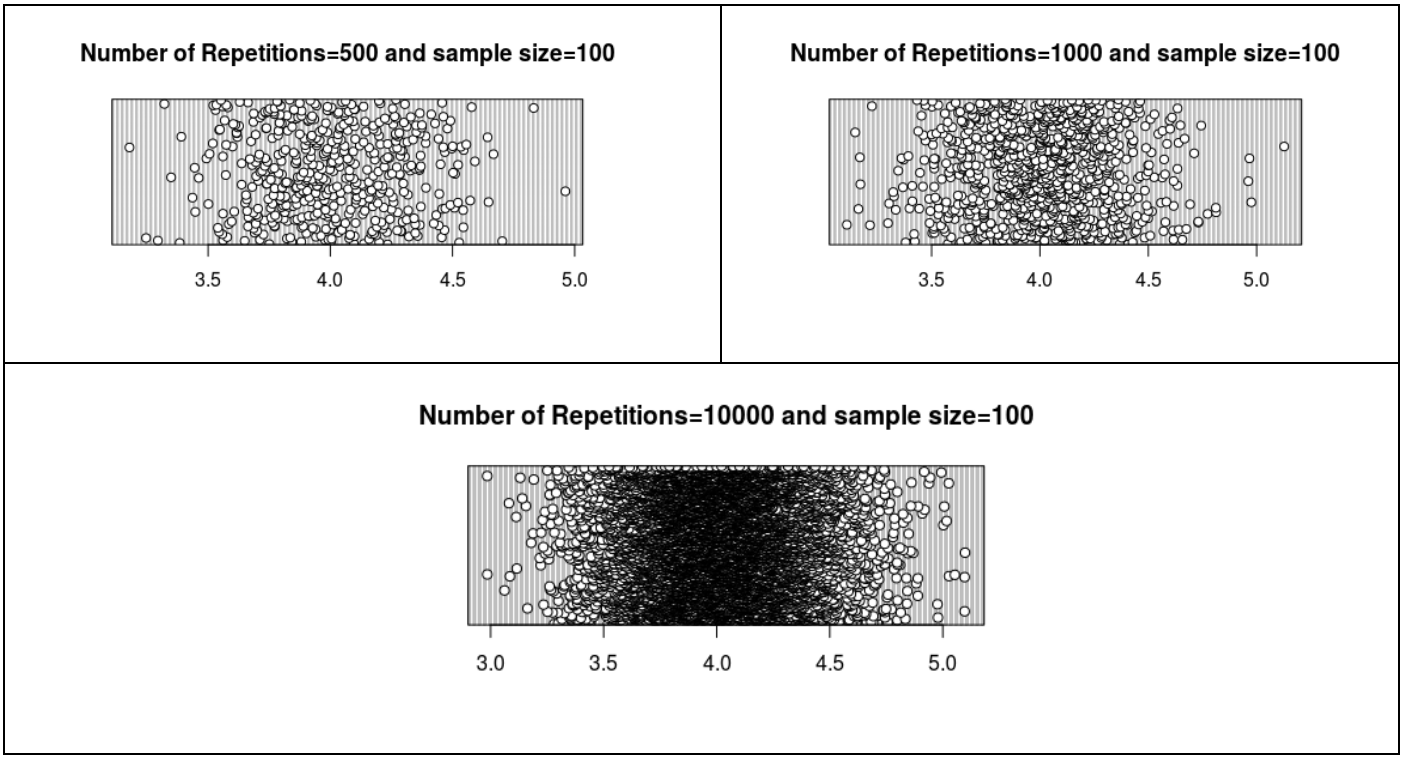


Number of Repetitions=10 and sample size=100



Number of Repetitions=100 and sample size=100




Number of Repetitions=500 and sample size=100
3.5
4.0
4.5
5.0
Number of Repetitions=1000 and sample size=100
3.5
4.0
4.5
5.0
Number of Repetitions=10000 and sample size=100
3.0
3.5
4.0
4.5
5.0