Assignment 4.6

A recent national study showed that approximately 44.7% of college students have used Wikipedia as a

source in at least one of their term papers. Let X equal the number of students in a random sample of

size n = 31 who have used Wikipedia as a source.

Perform the below functions

1. Find the probability that X is equal to 17
2. > quantile(mtcars$mpg,prob=c(0.05,0.10,0.90,0.95))
3. 5% 10% 90% 95%
4. 11.995 14.340 30.090 31.300

b. Find the probability that X is at most 13

> hist(Averages, prob=T,breaks=13,

+ main="Normal Distribution and Simulation Results",

+ xlab="Averages of Exponential Samples",

+ ylab="Density of Averages",

+ col='light blue')

c. Find the probability that X is bigger than 11.

> hist(Averages, prob=T,breaks=11,

+ main="Normal Distribution and Simulation Results",

+ xlab="Averages of Exponential Samples",

+ ylab="Density of Averages",

+ col='light blue')

d. Find the probability that X is at least 15.

e. Find the probability that X is between 16 and 19, inclusive