Assignment3

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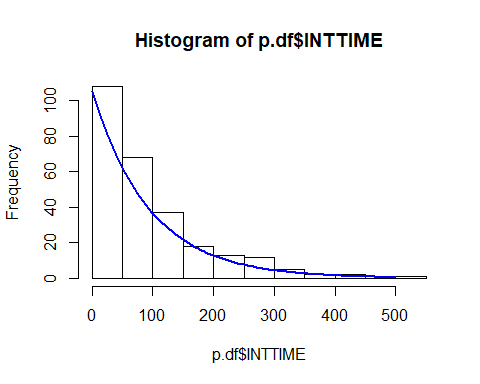
# Assignment 3 - 10/14 Questions Complete

## Question 1

### A

### B

p.df = read.csv("PHISHING.csv")  
  
hist(p.df$INTTIME)  
myexp = function(x, a, b) {  
 (a / b) \* '^'(2.71828183,-(a \* x / b))  
}  
curve(  
 myexp(x, 1, 95)\*10000, #Just for sizing to actual times. Could have went other way  
 xlim = c(0, 500),  
 ylim = c(0, 100),  
 col = "Blue",  
 lwd = 2,  
 ylab = "Exponential Density",  
 main = "Alpha = 1, Beta = 95",  
 add=TRUE  
)



Yes, you can clearly see that the data follow an exponential distribution of B=95

## Question 2

### A

### B

.60 million cubic feet lies well out of 2 standard deviations of the mean, so no, I would not expect to observe .60 in a gamma distribution with the constraints as this one. The data seems insufficient.

## Question 3

### A

### B

### C

Formula B has a higher probability of generating human reaction in less than 1 minute.

## Question 4

### A

### B

### C

### D

It is very unlikely that the machine will exceed 6 years without repair.

## Question 5

### A

### B

### C

## Question 6

### A

### B

### C

## Question 7

### A

### B

### C

### D

This shows X and Y are independent.

## Question 8

### A

P(EnergyLevel, TimePeriod)= {0.142857, 0.285714, 0.142857, 0, 0, 0.285714, 0, 0, 0.142857}

### B

### C

### D

## Question 9

### A

Exponential Distribution

### B

## Question 10

### A

### B

### C

## Question 11

## Question 12

## Question 13

## Question 14