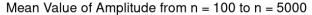
```
Semente = 361

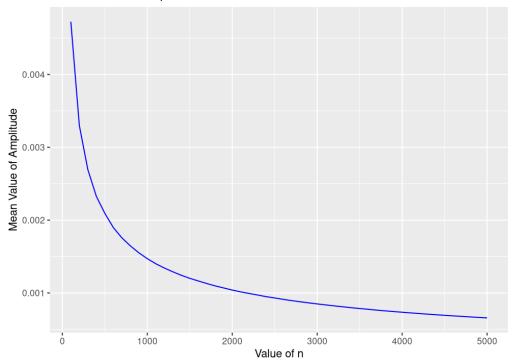
m = 650

\lambda = 0.01

(1 - \alpha) = 0.98
```

```
1 library(ggplot2)
2 set.seed(361)
3
4 lambda <- 0.01
5 confidence <- 0.98
6 alfa = 1 - confidence
7 a <- qnorm(1 - alfa/2)
8 m <- 650
9
10 index <- numeric()
11 values <- numeric()
12
13 for (i in 1:50)
14 {
15 media <- 0
1 n <- i * 100
17 for (l in 1:m){
18 vector<- rexp(n,lambda)
19 mean_value = 1/mean(vector)
20 calc <- 2 * (a / sqrt(n)) * mean_value
21 media <- media + calc
22 }
23 media <- media /m
24 index <- append(index,n)
25 values <- append(values,media)
36 df <- data.frame(table)
37 ggplot(df, aes(x=index, y=values)) + geom_line(stat="identity", position=position_dodge(),color="blue") +
38 labs(title="Mean Value of Amplitude from n = 100 to n = 5000", x= "Value of n", y = "Mean Value of Amplitude")</pre>
```





Pela observação do gráfico obtido conclui-se que quanto maior o valor de n, menor será a média das amplitudes.