

Relatório Pergunta 6

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```
library(ggplot2)
library(dplyr)
library(tidyr)
library(readxl)
```

```
set.seed(381)
```

```
vec <- c(4,26,9)
```

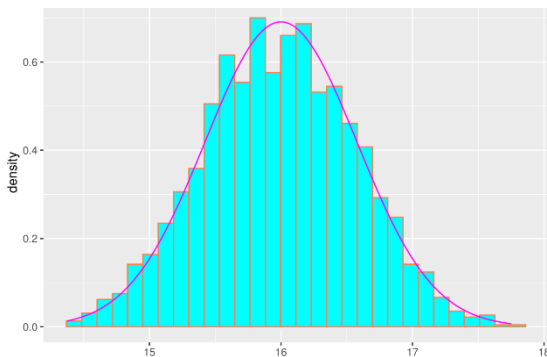
```
aux <- data.frame()
```

```
#colnames()
```

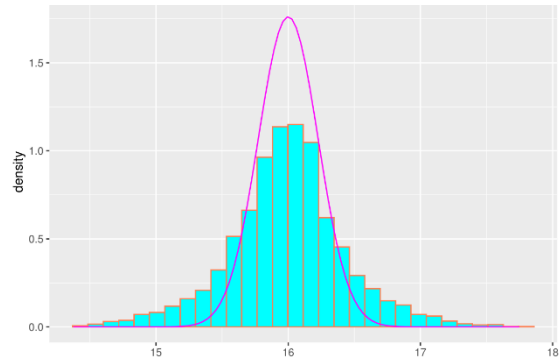
```
for (i in vec) {
  for (j in seq(1940)) {
    amostras <- runif(i,14,18)
```

```
    med <- mean(amostras)
    aux <- rbind(aux,c(med))
  }
  mean(aux$X15.1387947464827)
  media_total <- (14+18)/2
  var_total <- 16/12
```

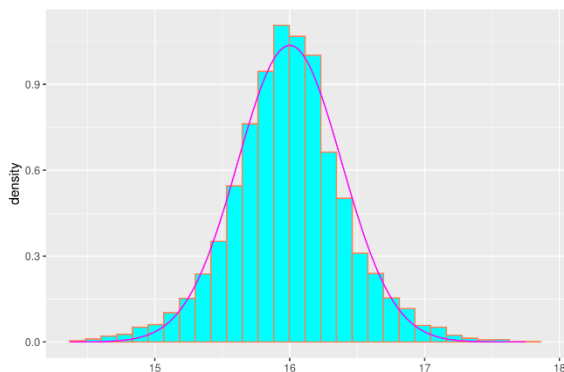
```
print(ggplot(aux,aes(aux$X15.1387947464827))
+
geom_histogram(aes(y=..density..),fill="cyan",c
olor="coral") +
  geom_function(fun = dnorm,
    args = list(mean = media_total, sd =
sqrt(var_total / i)),
    color = "magenta"))
}
```



Value
(n = 4)



Value
(n = 26)



Value
(n = 95)

Comentários:

Os gráficos apresentados vão de acordo com a teoria abordada nas aulas.