Gráficos

Francisco Alberto

30/9/2020

Gráficos

```
x = c(1,2,3,4,5)
y = c(4,5,6,7,8)
plot(x,y)
```

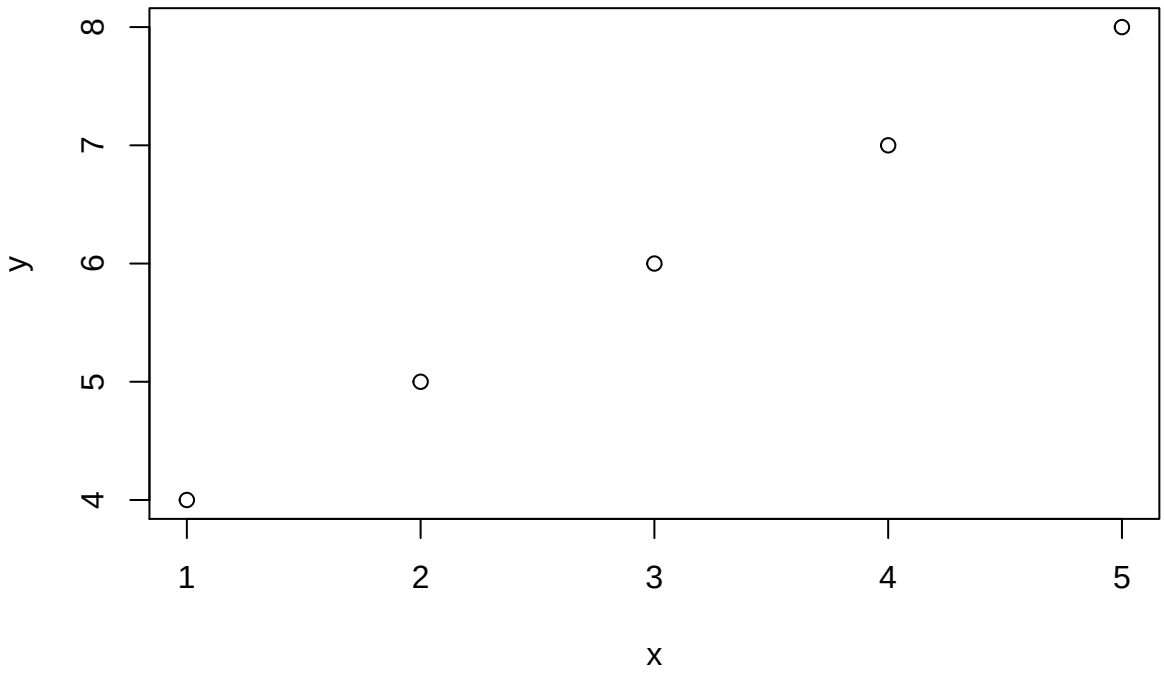


Figure 1: Primer Gráfico

```
plot(2^(1:6))
```

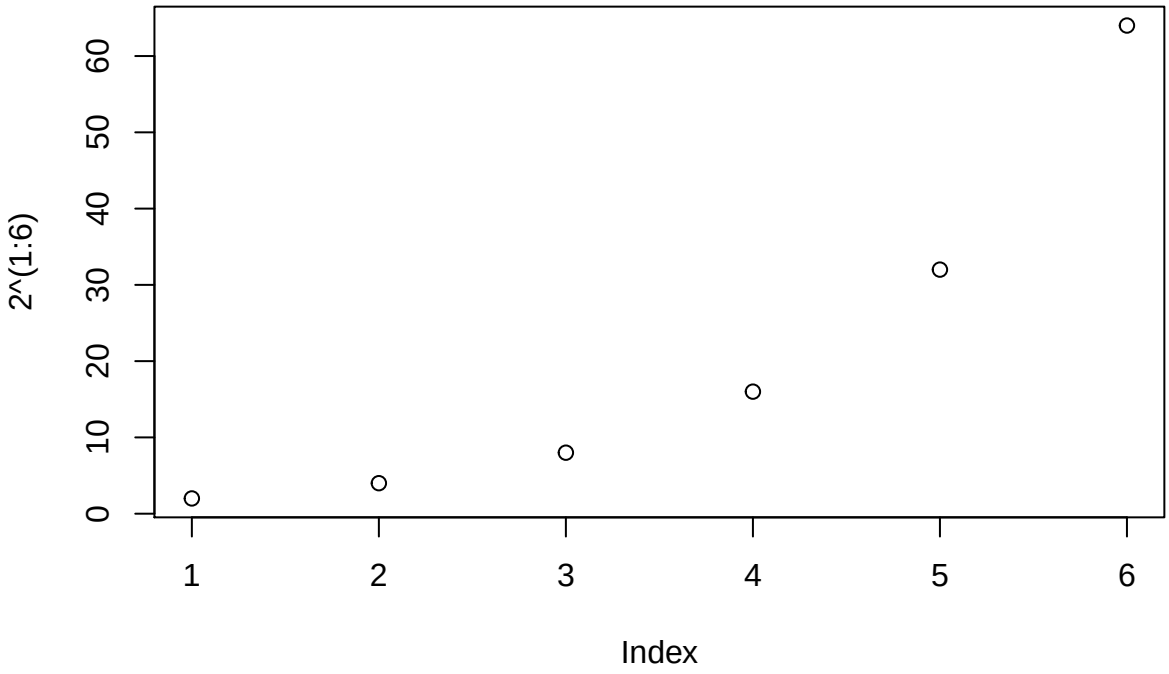


Figure 2: Segundo Gráfico

```r
cuadrado = function(x){x^2}
plot(cuadrado)
```

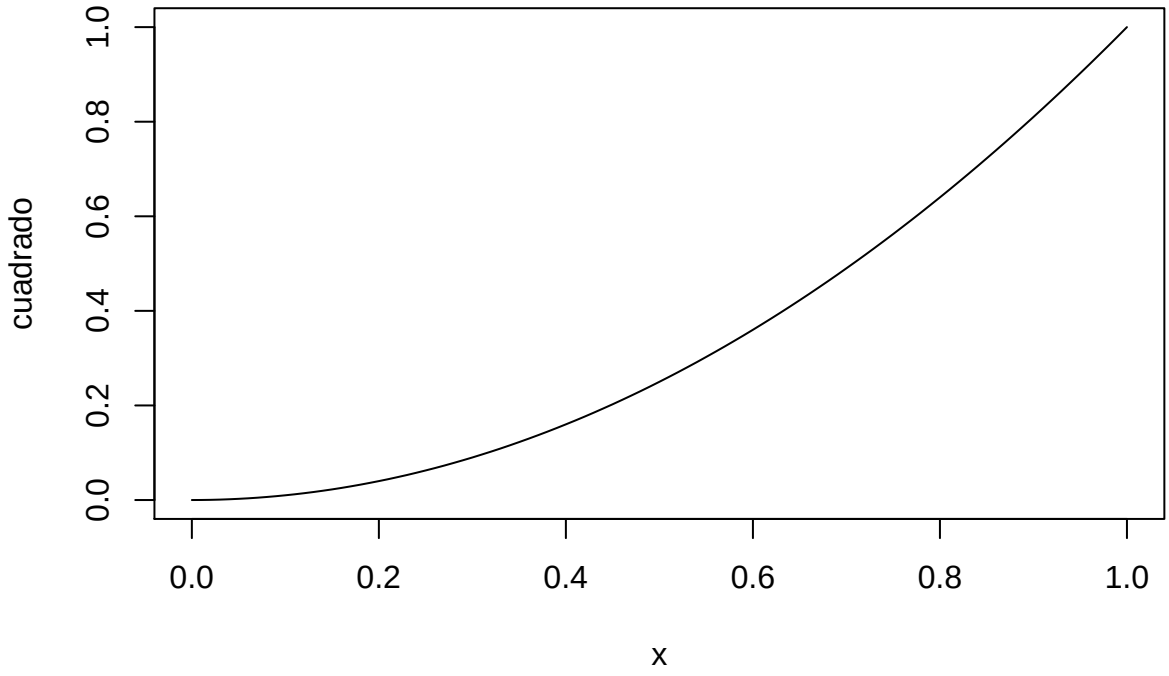


Figure 3: Tercer Gráfico

```r
x = c(14,16,18,19)
raiz_cuadrada = function(x){sqrt(x)}
plot(raiz_cuadrada(x))
```

Parámetros

```r
par(mfrow = c(1,2))
x = 1:20
triple = function(x){x ^ 3}
plot(triple(x),xlab = "Indices",
     ylab = "Exponentes",main = "Triple",
     pch = 20 , cex = 2,col = "red")
plot(triple(x),xlab = "Indices",
     ylab = "Exponentes",main = "Triple",
     pch = 20 , cex = 2,col = "blue")
```

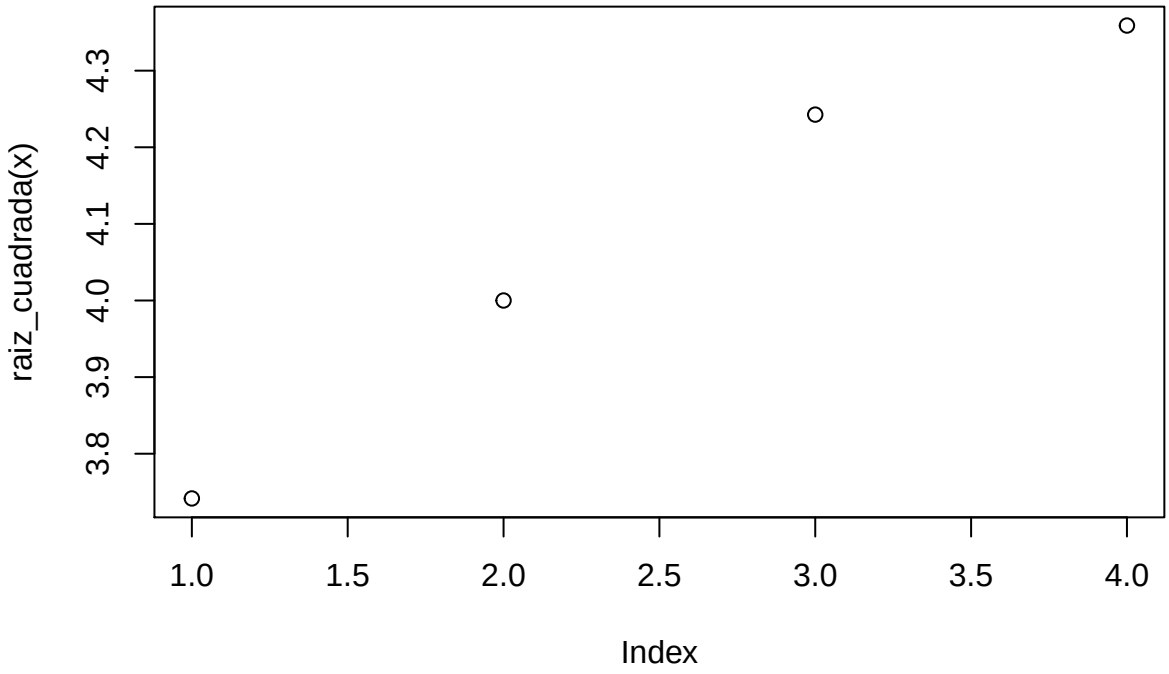
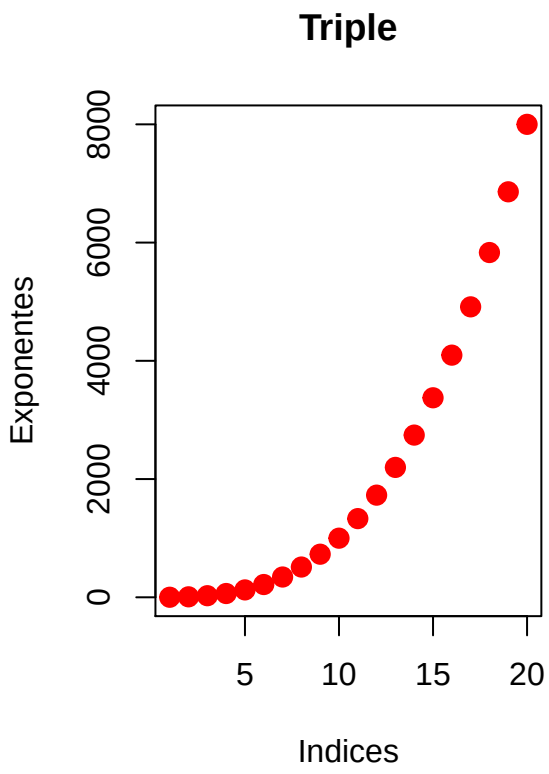
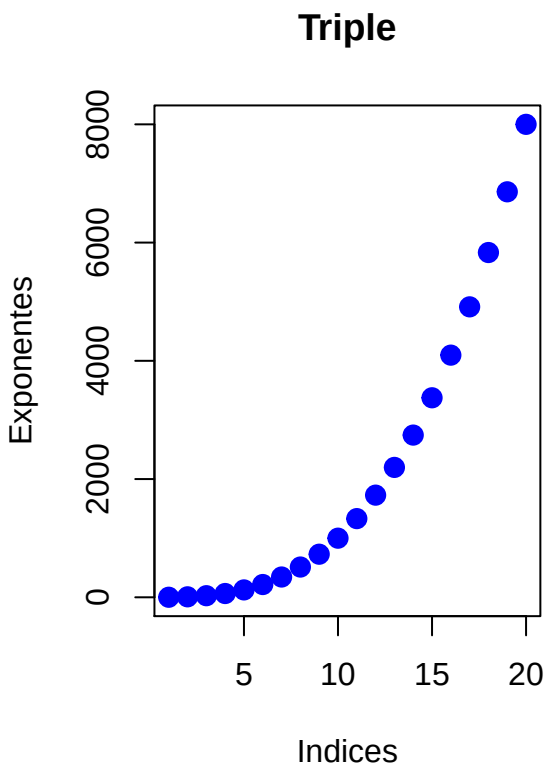


Figure 4: Cuarto Gráfico



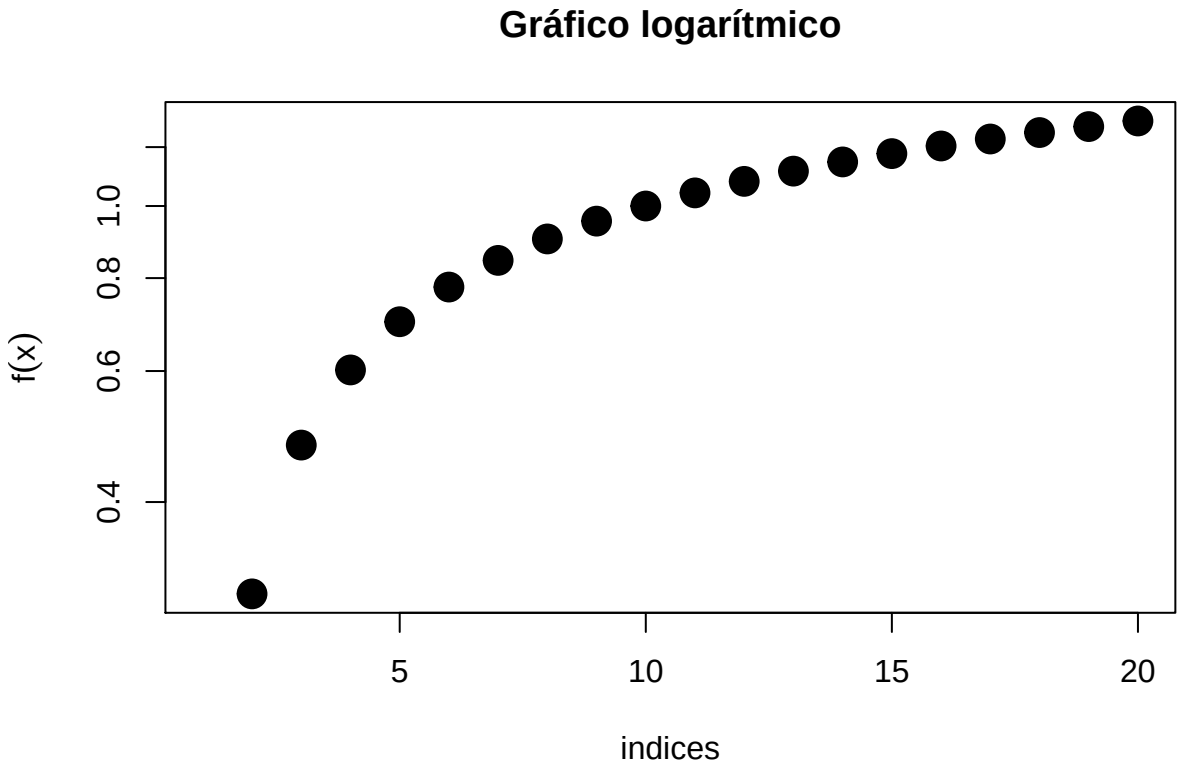



```
par(mfrow = c(1,1))
```

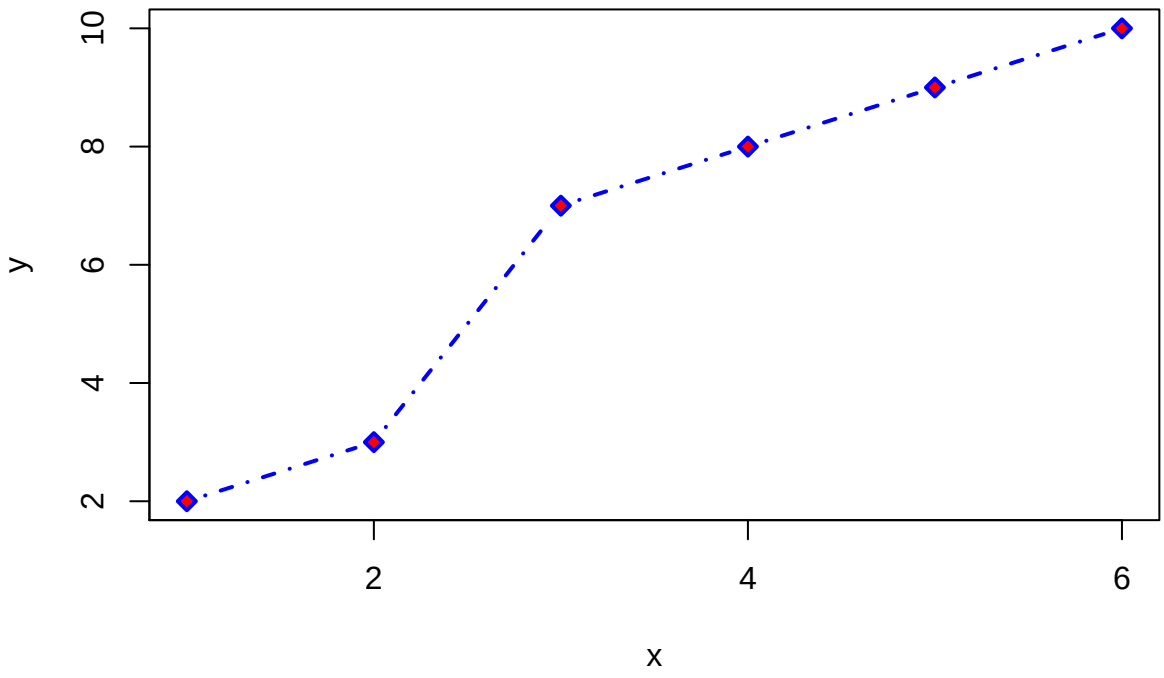
```
x = 1:20
logaritmico = function(x){log10(x)}
plot(logaritmico(x),xlab = "indices",
     ylab = expression(f(x)),log = "y",
     main = "Gráfico logarítmico",pch = 20,
     color = "blue",cex = 3)
```

```
## Warning in xy.coords(x, y, xlabel, ylabel, log): 1 y value <= 0 omitted from
## logarithmic plot

## Warning in plot.window(...): "color" is not a graphical parameter

## Warning in plot.xy(xy, type, ...): "color" is not a graphical parameter

## Warning in axis(side = side, at = at, labels = labels, ...): "color" is not a
## graphical parameter

## Warning in axis(side = side, at = at, labels = labels, ...): "color" is not a
## graphical parameter

## Warning in box(...): "color" is not a graphical parameter
```

```
## Warning in title(...): "color" is not a graphical parameter
```




```r
x = c(1,2,3,4,5,6)
y = c(2,3,7,8,9,10)
plot(x,y,main = "Gráfico 1",pch = 23,col = "blue",
     bg = "red",lty = "dotdash",type = "b",
     lwd = 2,xaxp = c(0,6,3),yaxp = c(0,10,5))
```




```
c = function(x){x^3}
plot(c,xlab = "x",ylab = expression(y^3),
     main = "Grafico cubo",
     pch = 19 , lty = "dotdash",lwd = 2,
     col = "red")
abline(v = 0:1 , h = 0:1, lty = "dashed",
       col = "gray0")
```

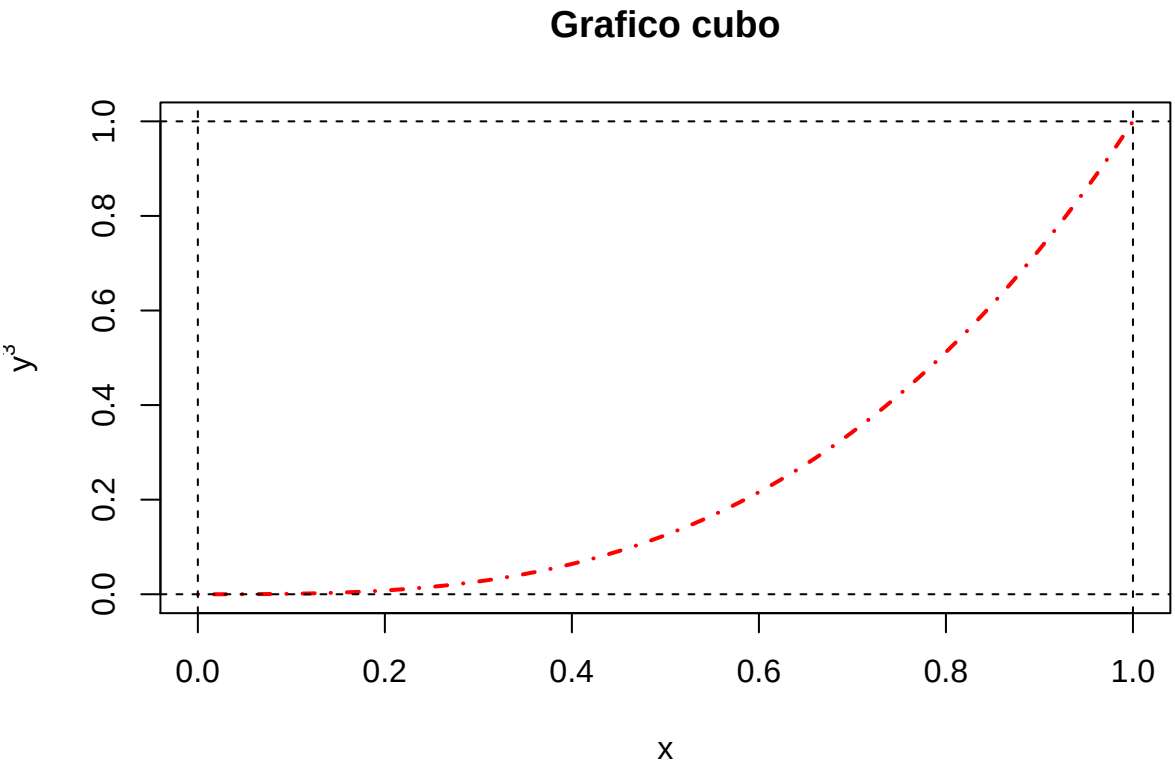


Grafico cubo
y³
0.0
0.2
0.4
0.6
0.8
1.0
x