ExamenGraficas

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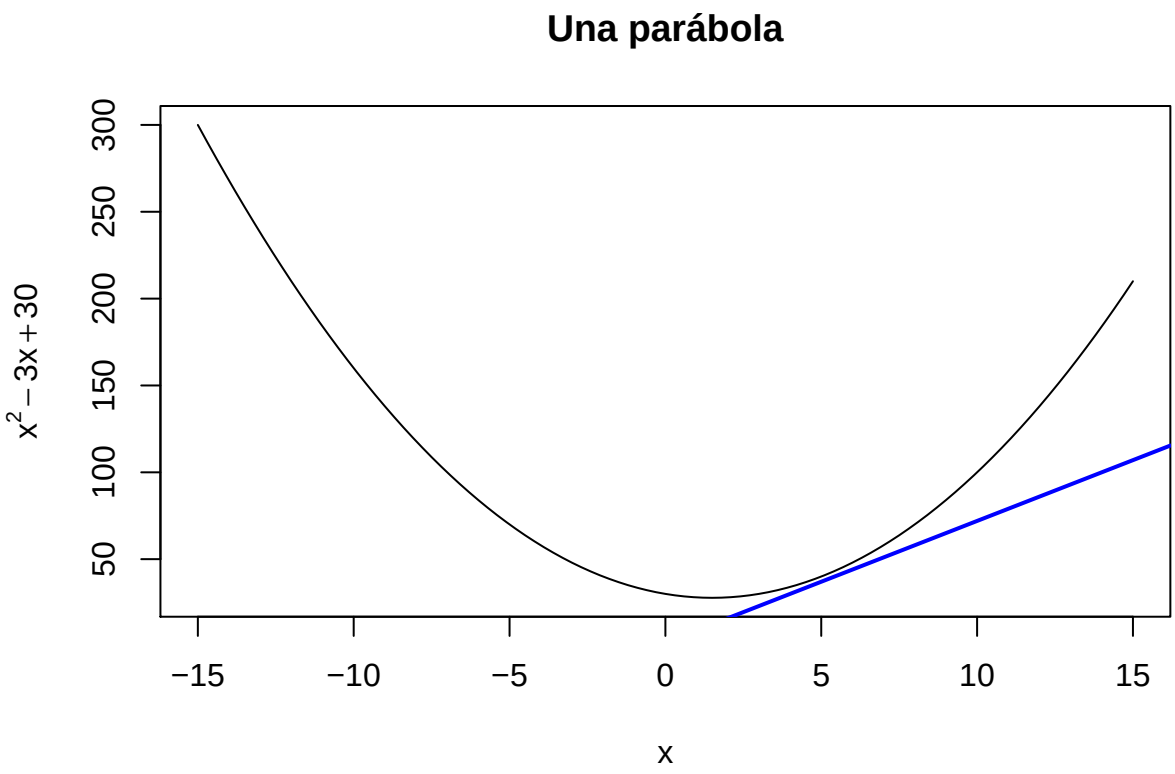
Ejercicios

1, 6

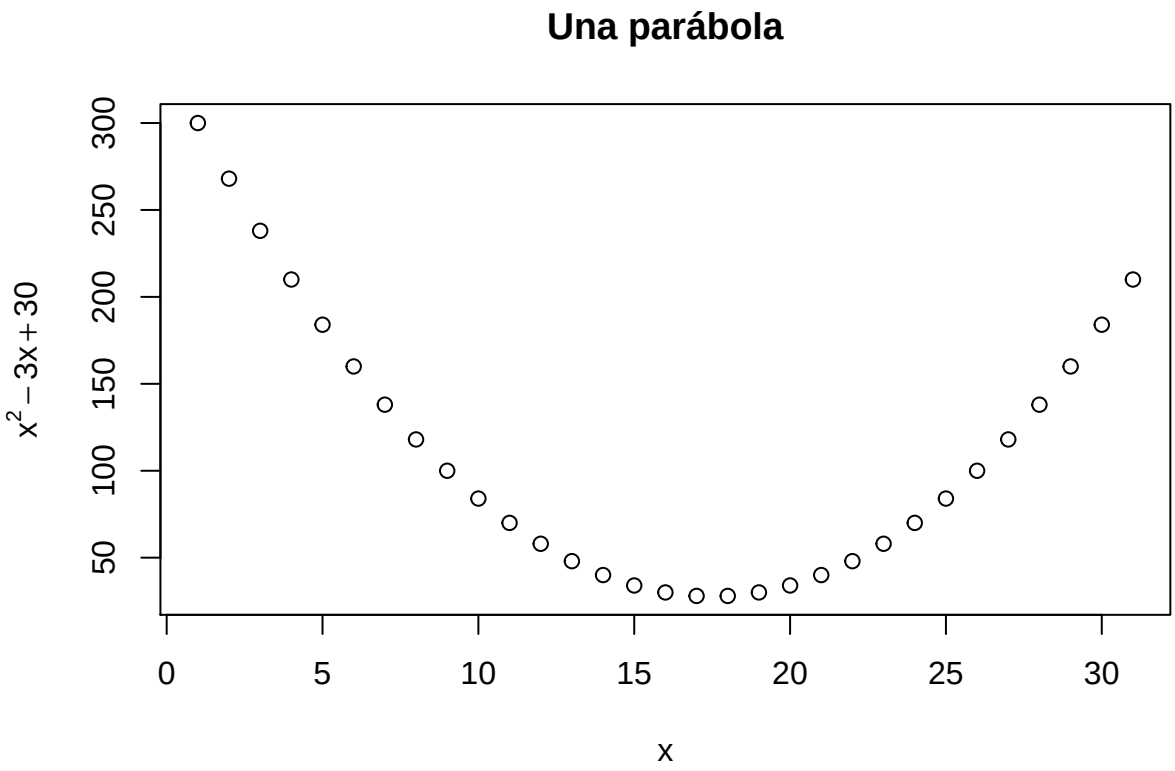
```
curve(x^2 - 3*x + 30,
      xlim = c(-15, 15),
      xlab = expression(x),
      ylab = expression(y = x^2 - 3*x + 30),
      main = "Una parábola",
      add = NA)
abline(2,7, col = "blue",
       lwd = 2)
```



2

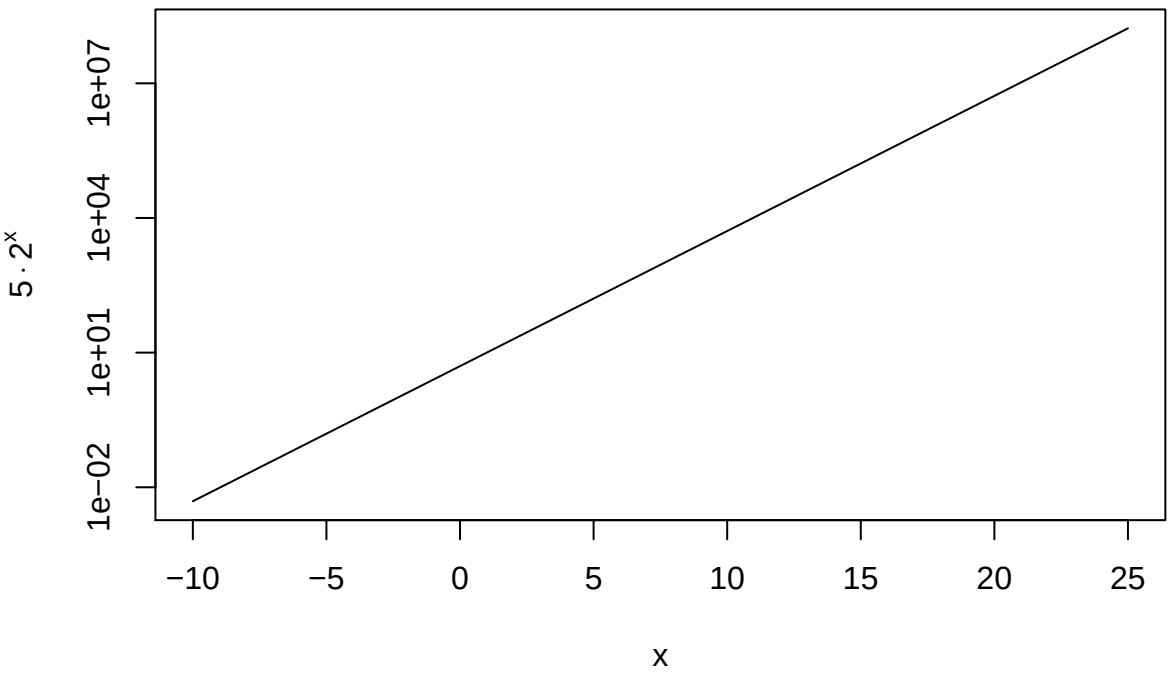
```
f <- function(x){
  x^2 - 3*x + 30
}
```

```r
I =(-15:15) #No nos devuelve la misma gráfica
#ya que estamos tomando 15 elementos antes
#de llegar al 0 de la función y 15 elementos
#después del cero de la función.
plot(f(I),
     xlab = expression(x),
     ylab = expression(y = x^2 - 3*x + 30),
     main = "Una parábola")
```



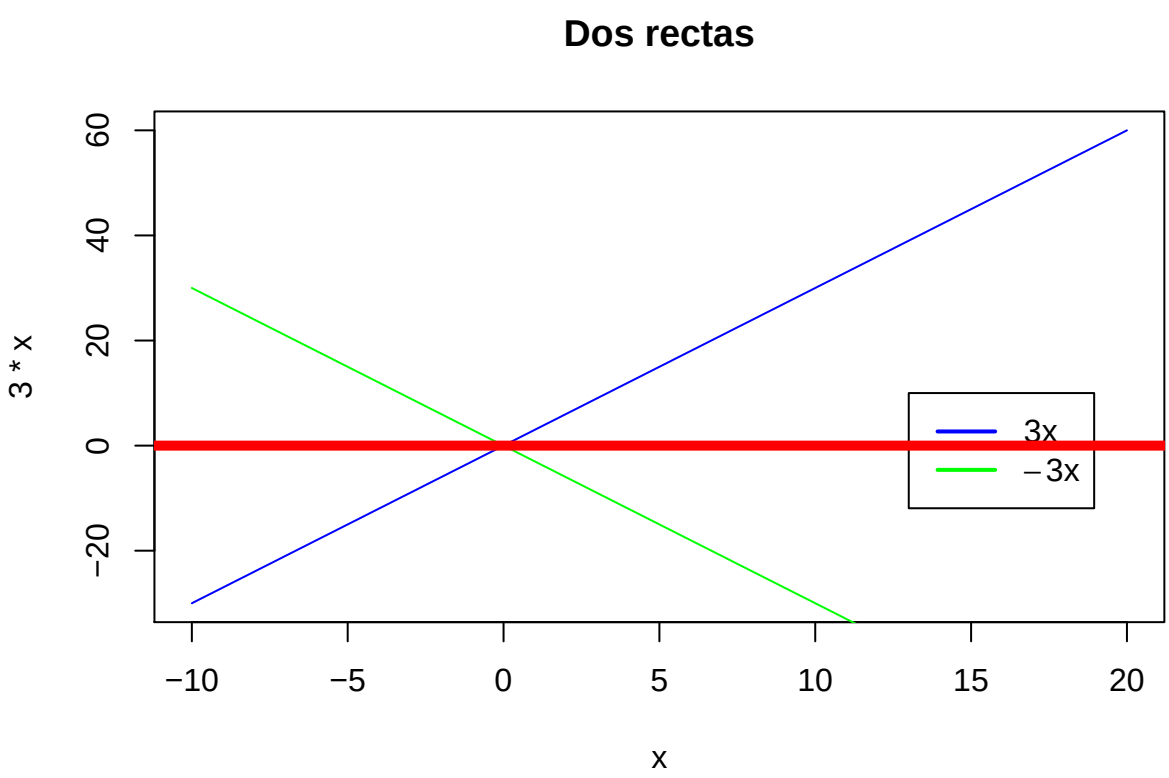
3

```r
curve(5*2^x,
      xlim = c(-10, 25),
      ylab = expression(5 %.% 2^x),
      log = "y")
```



4, 5

```
curve(3*x, xlim = c(-10,20),
      col = "blue", main = "Dos rectas",
      sub = "Dos rectas con pendiente opuesta")
curve(-3*x, xlim = c(-10,20),
      col = "green",  add = TRUE)
legend(13, 10, col = c("blue", "green"),
       legend = c(expression(3*x),expression(-3*x)),
       lty = 1, lwd = 2)
abline(h = 0, col = "red",
       lwd = 5)
```



Dos rectas con pendiente opuesta