

Examen Graficas

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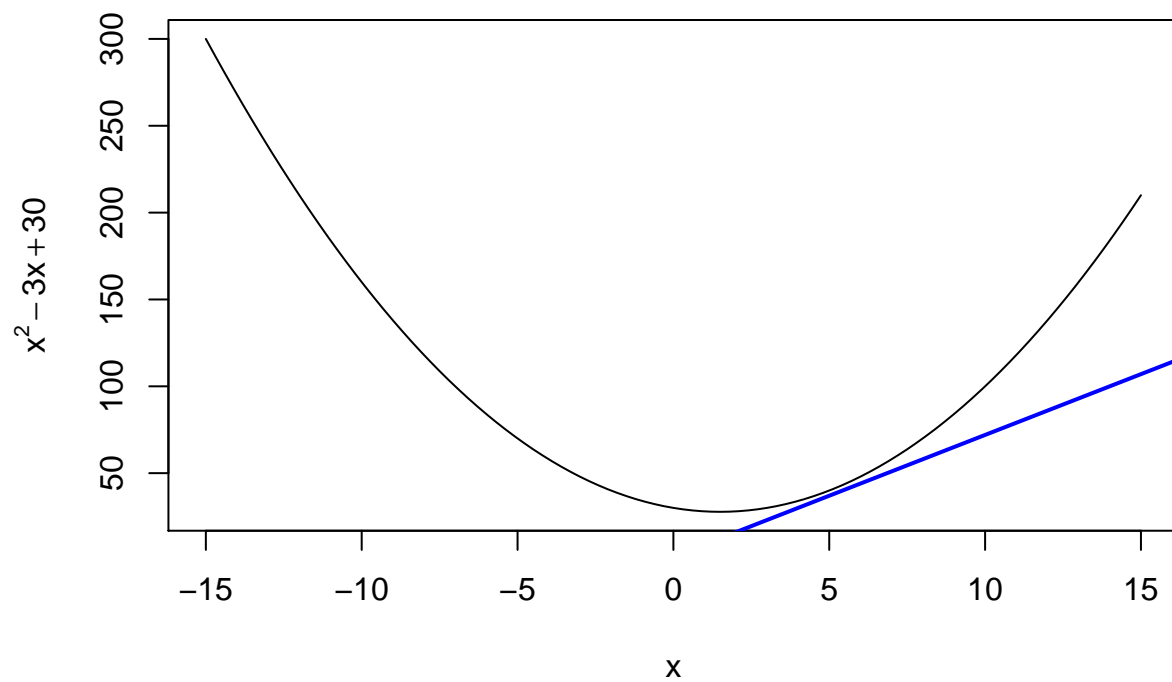
24/7/2019

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)
```

Una parábola



2

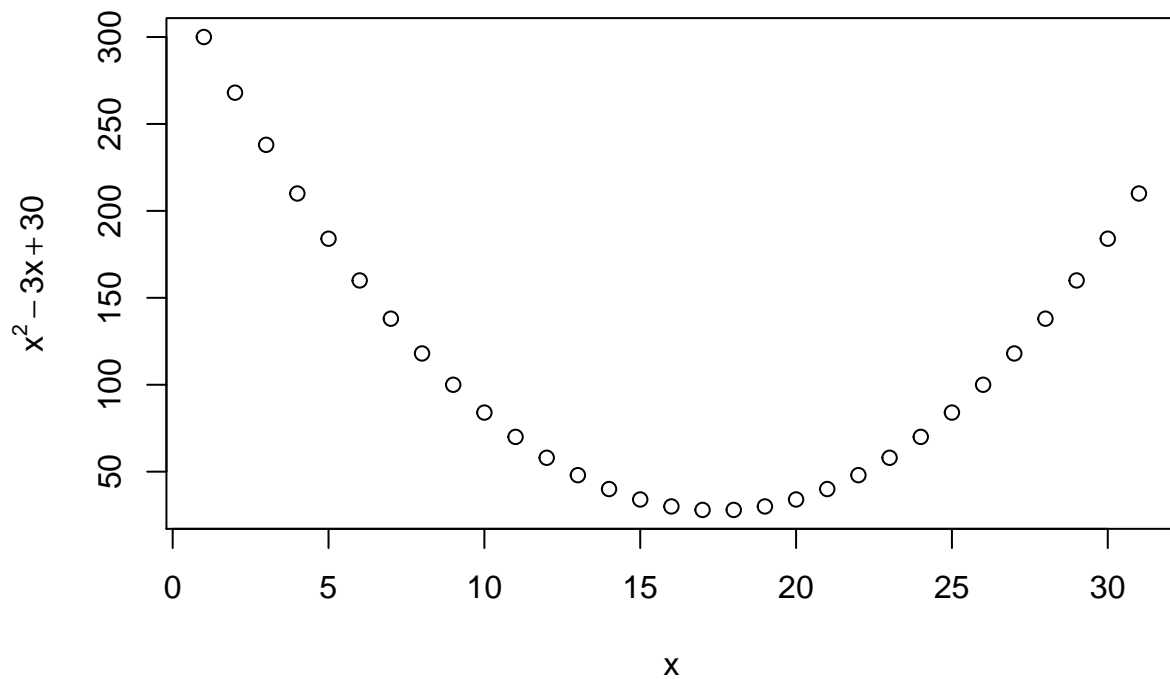
```
f <- function(x){  
  x^2 - 3*x + 30  
}
```

```

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")

```

Una parábola

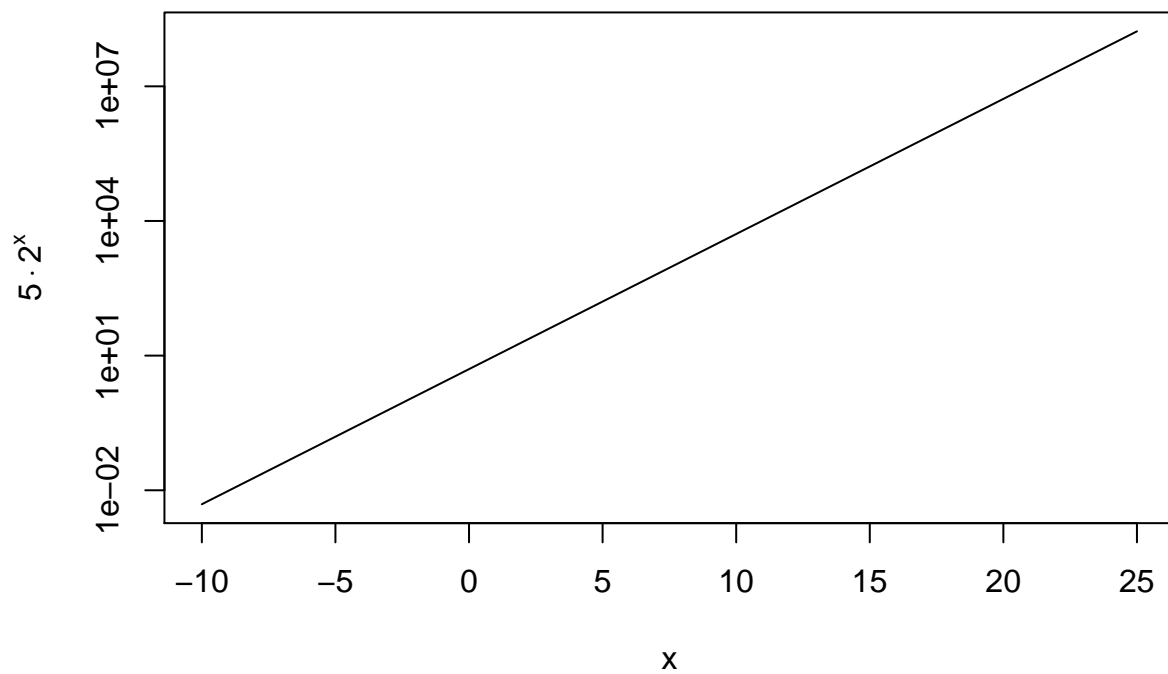


3

```

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

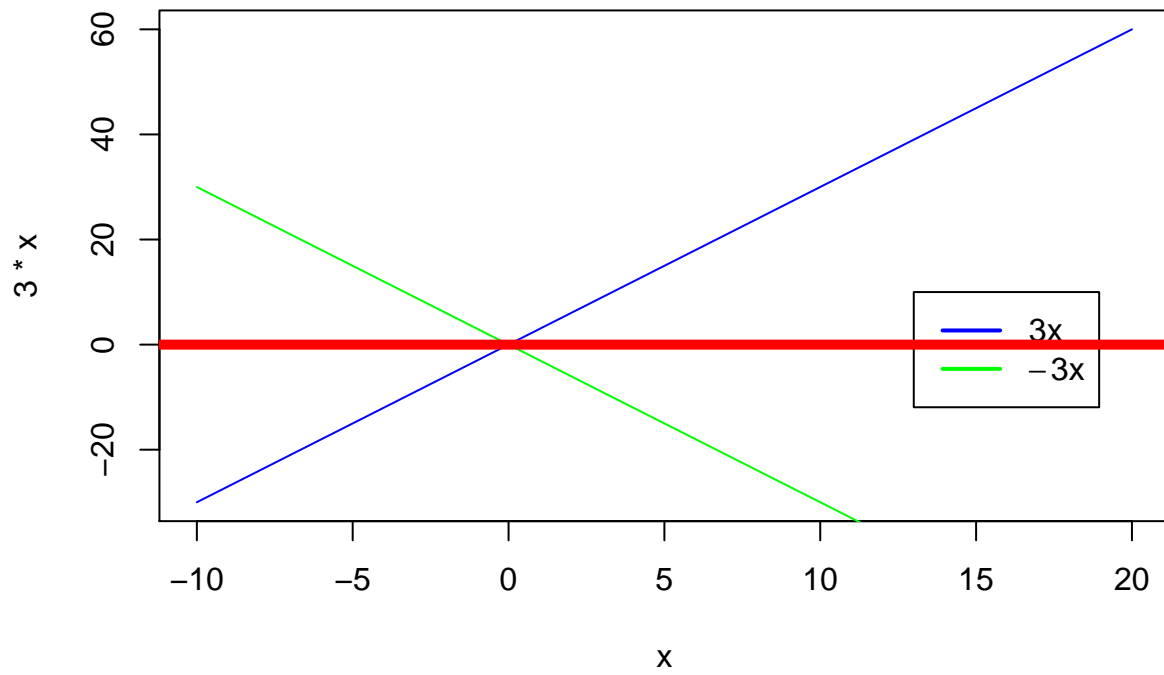
```



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



Dos rectas con pendiente opuesta