

#Regresión lineal #10/03/2025

```
geyser <- read.csv("erupciones.csv", header = T) View (geyser)
```

```
plot (geyser$waiting ~ geyser$eruptions, pch = 19, xlab = "Tiempo de espera (min)", ylab = "Duración (min)")
```

```
cor (geyser$waiting, geyser$eruptions) cor.test (geyser$waiting, geyser$eruptions)
```

```
g.lm <- lm (geyser$waiting ~ geyser$eruptions) g.lm summary (g.lm)
```

```
#Gráficar línea de tendencia central plot (geyser$waiting ~ geyser$eruptions, pch = 19, xlab = "Tiempo de  
espera (min)", ylab = "Duración (min)")
```

```
#Corrección de la relación g.lm <- lm (geyser$eruptions ~ geyser$waiting) g.lm
```

```
summary (g.lm) plot (geyser$waiting, geyser$eruptions, pch = 19, xlab = "Tiempo de espera (min)", ylab =  
"Duración (min)")
```

```
abline (g.lm, col = "red")
```

```
-1.87 + 0.07*60 g.lm$coefficients[1]+g.lm$coefficients[2]*60 geyser$yprima <- g.lm$fitted.values  
geyser$residuales <- g.lm$residuals
```

```
sum(geyser$residuales)
```

```
geyser$res2 <- geyser$residuales^2 sum(geyser$res2)/270
```

```
mod.lm <- anova(g.lm) mod.lm
```