comparamedias_pwp_ Podología

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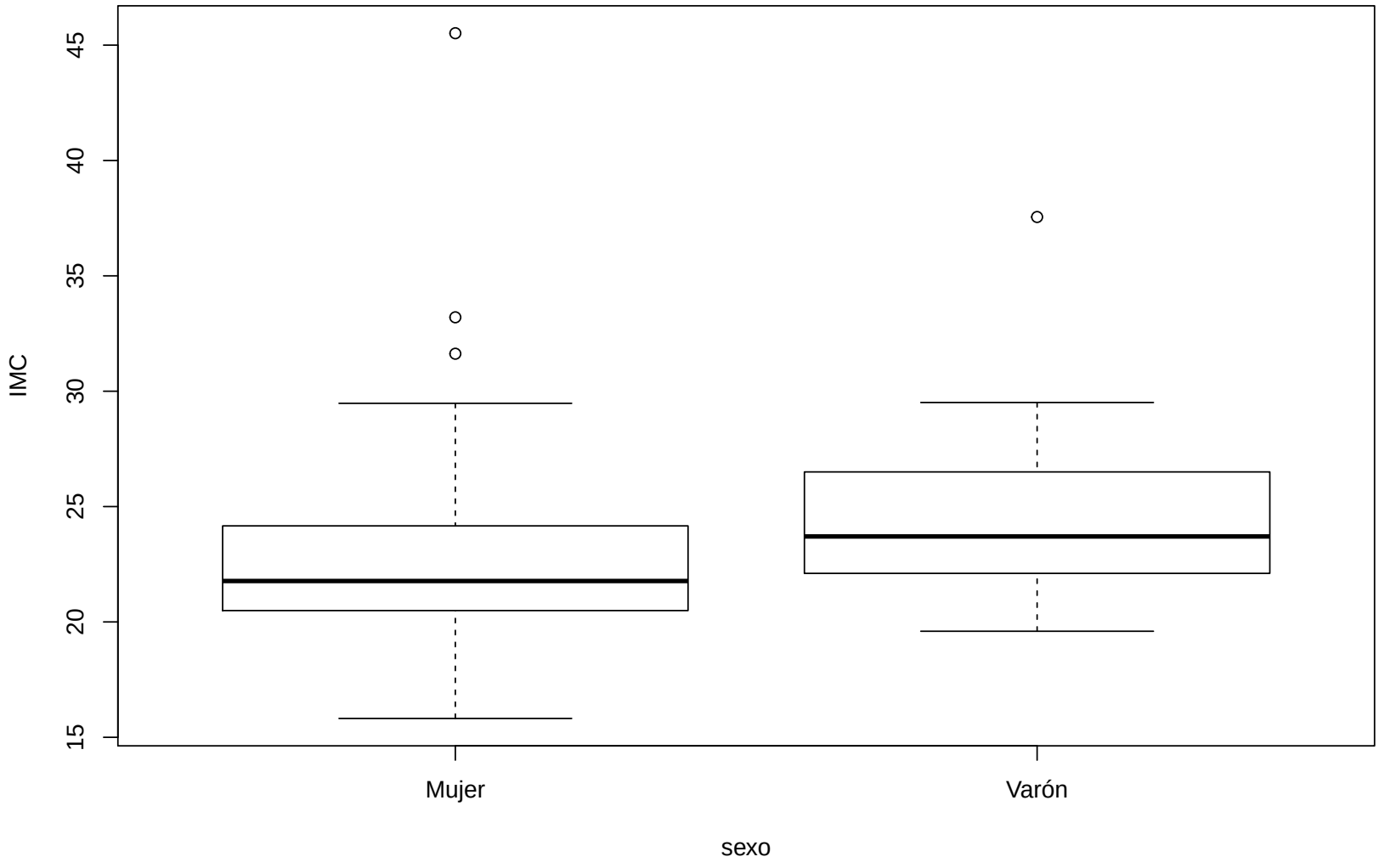
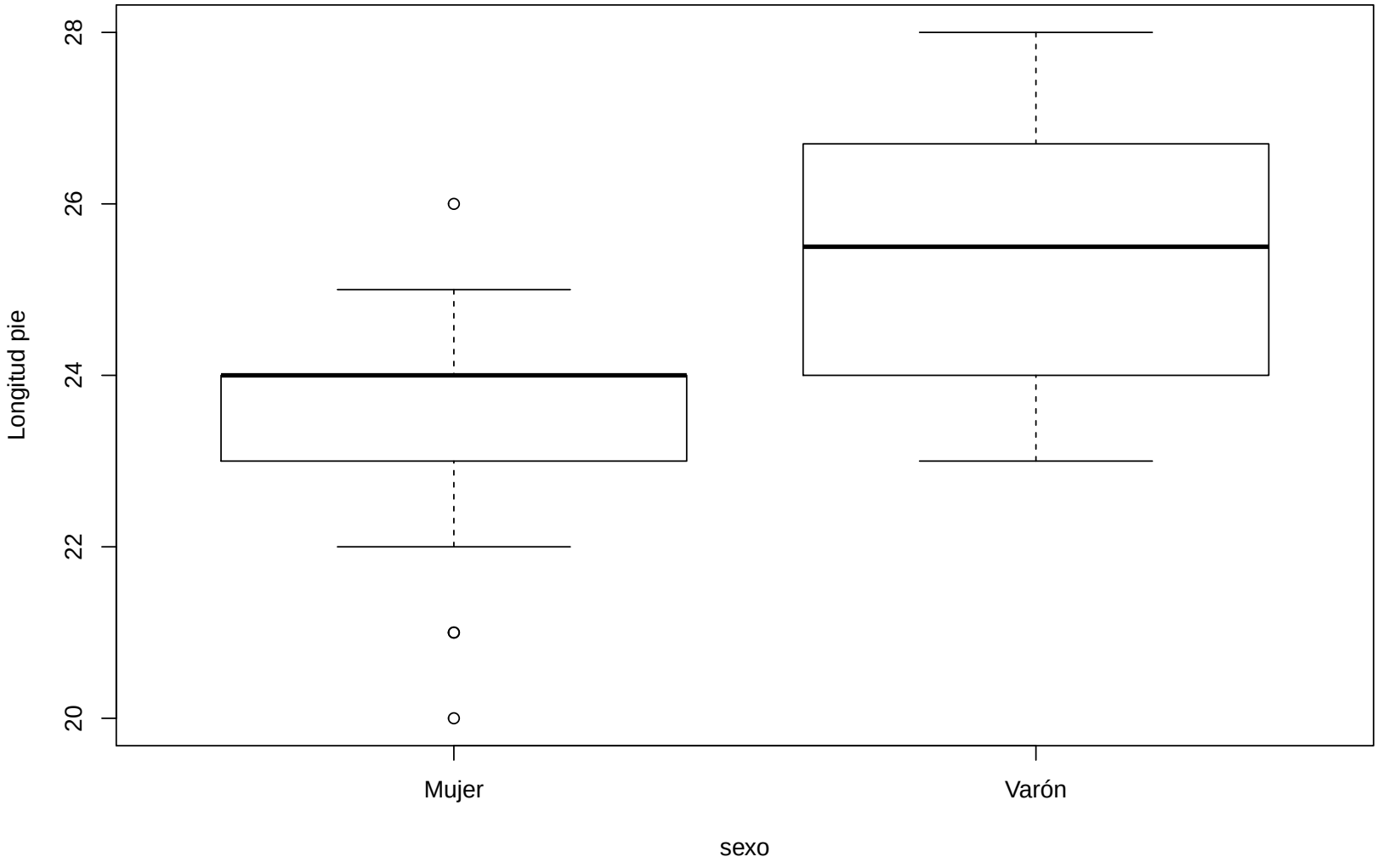
¿Son diferentes?

Respecto a su estructura corporal

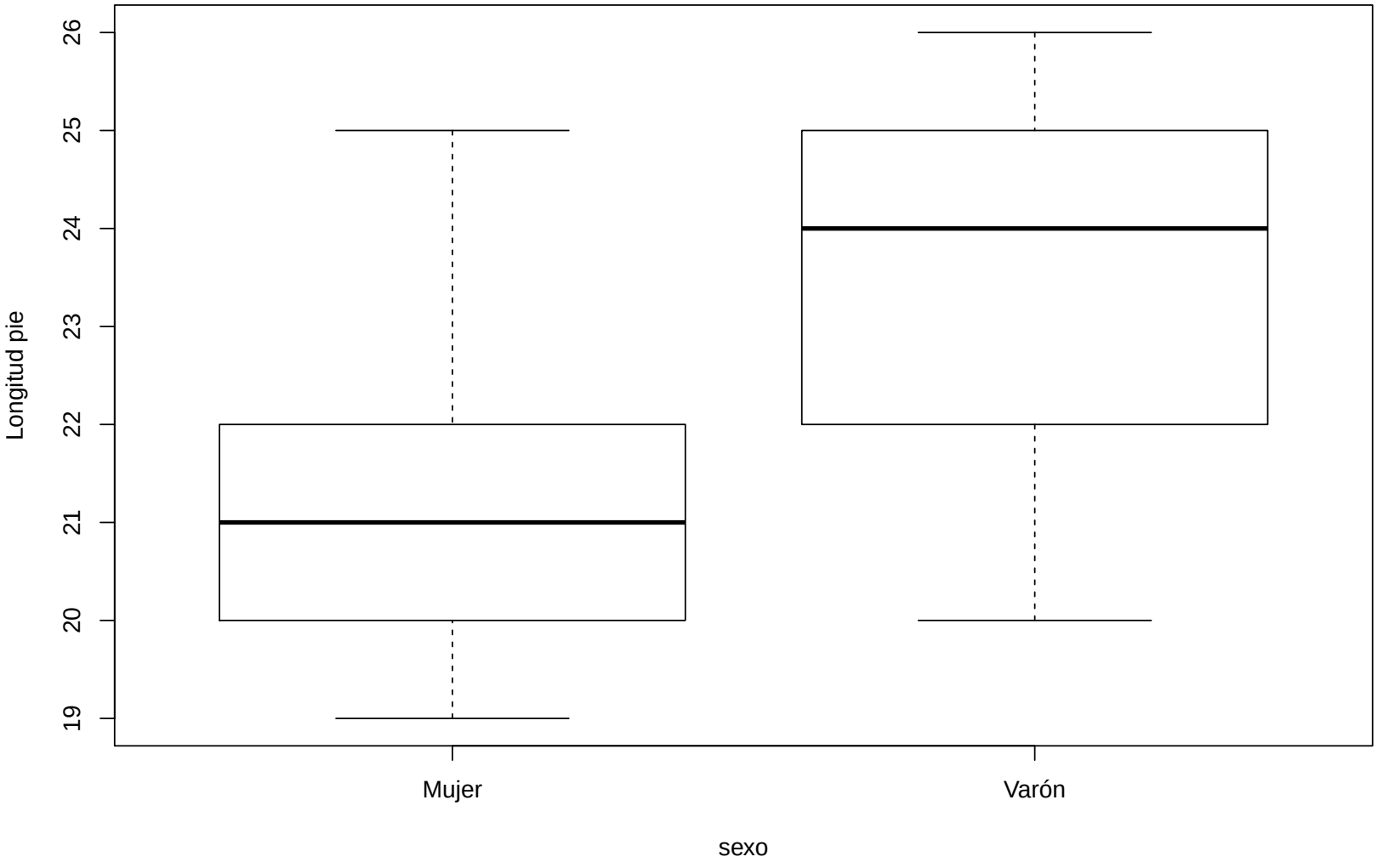


¿Son diferentes? (2)

Con respecto a las características de sus pies



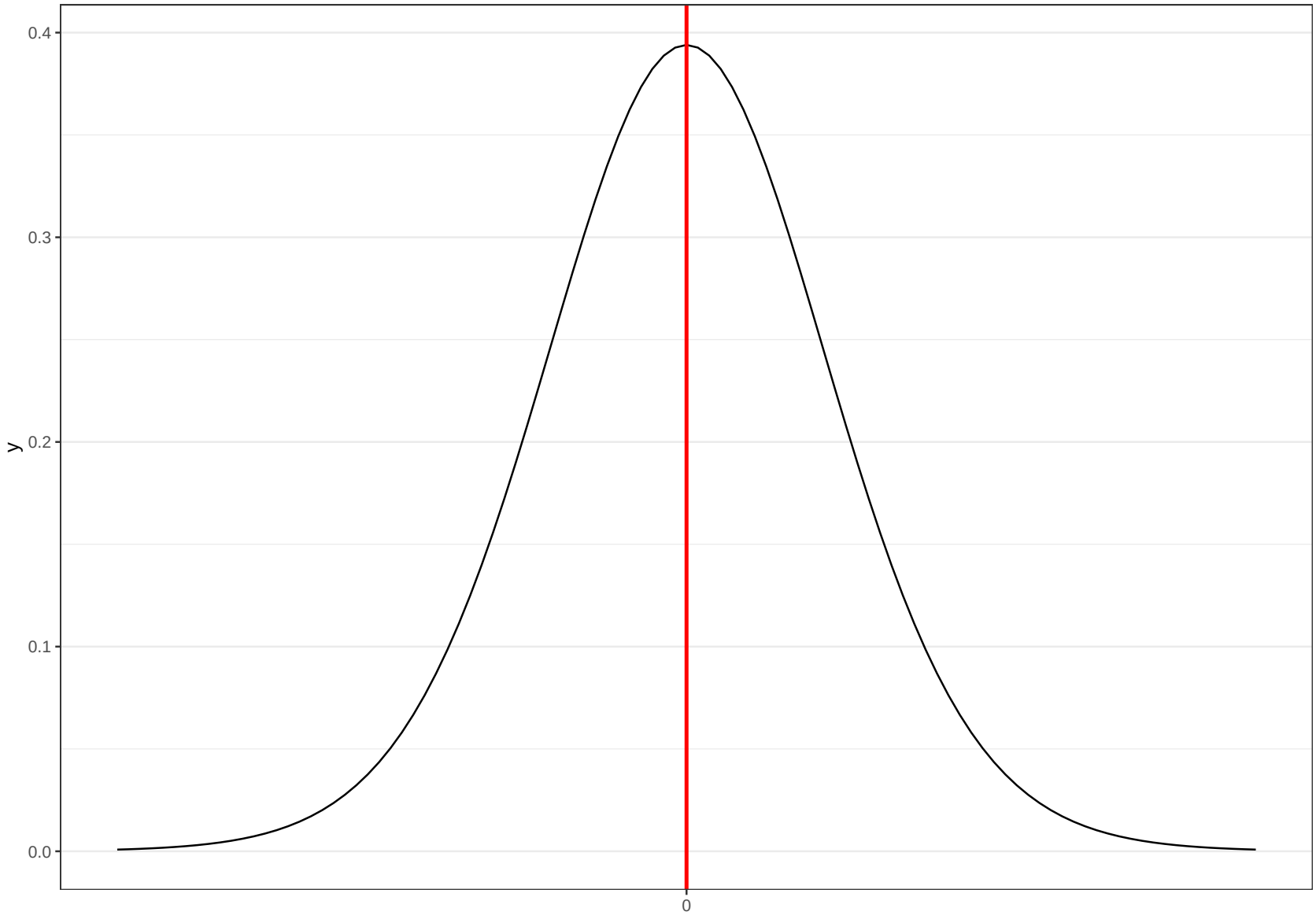
¿Son diferentes? (2)



Hipótesis nula

$$H_0 : \mu_A = \mu_B$$

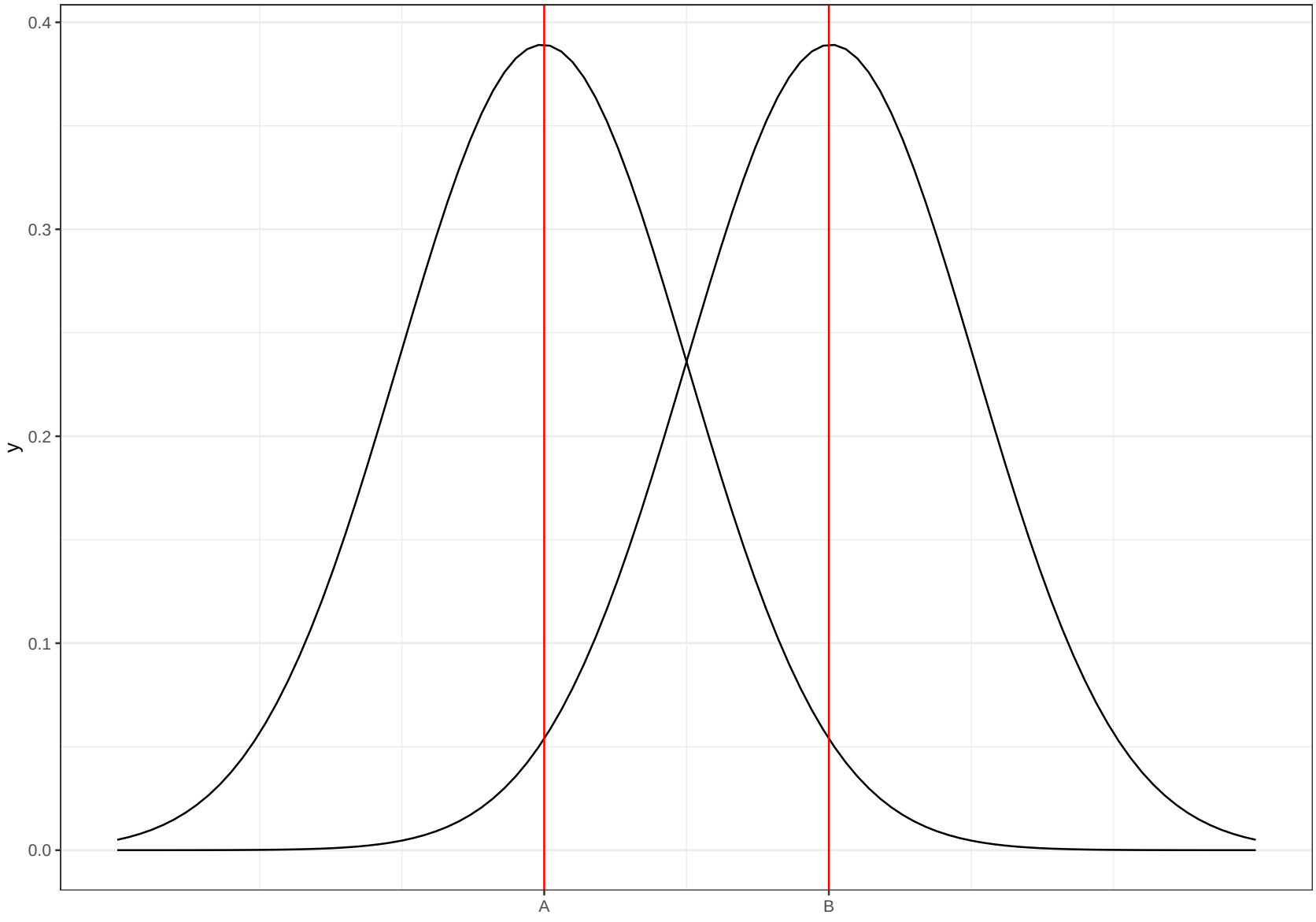
$$H_0 : \mu_A - \mu_B = 0$$


0.4
0.3
0.2
0.1
0.0
y
0

Hipótesis alternativa

$$H_1 : \mu_A \neq \mu_B$$

$$H_1 : \mu_A - \mu_B \neq 0$$


0.4
0.3
0.2
0.1
0.0
y
A
B

Estadístico del test

$$t_{exp} = \frac{\bar{x}_A - \bar{x}_B}{E.T.(\bar{x}_A - \bar{x}_B)}$$

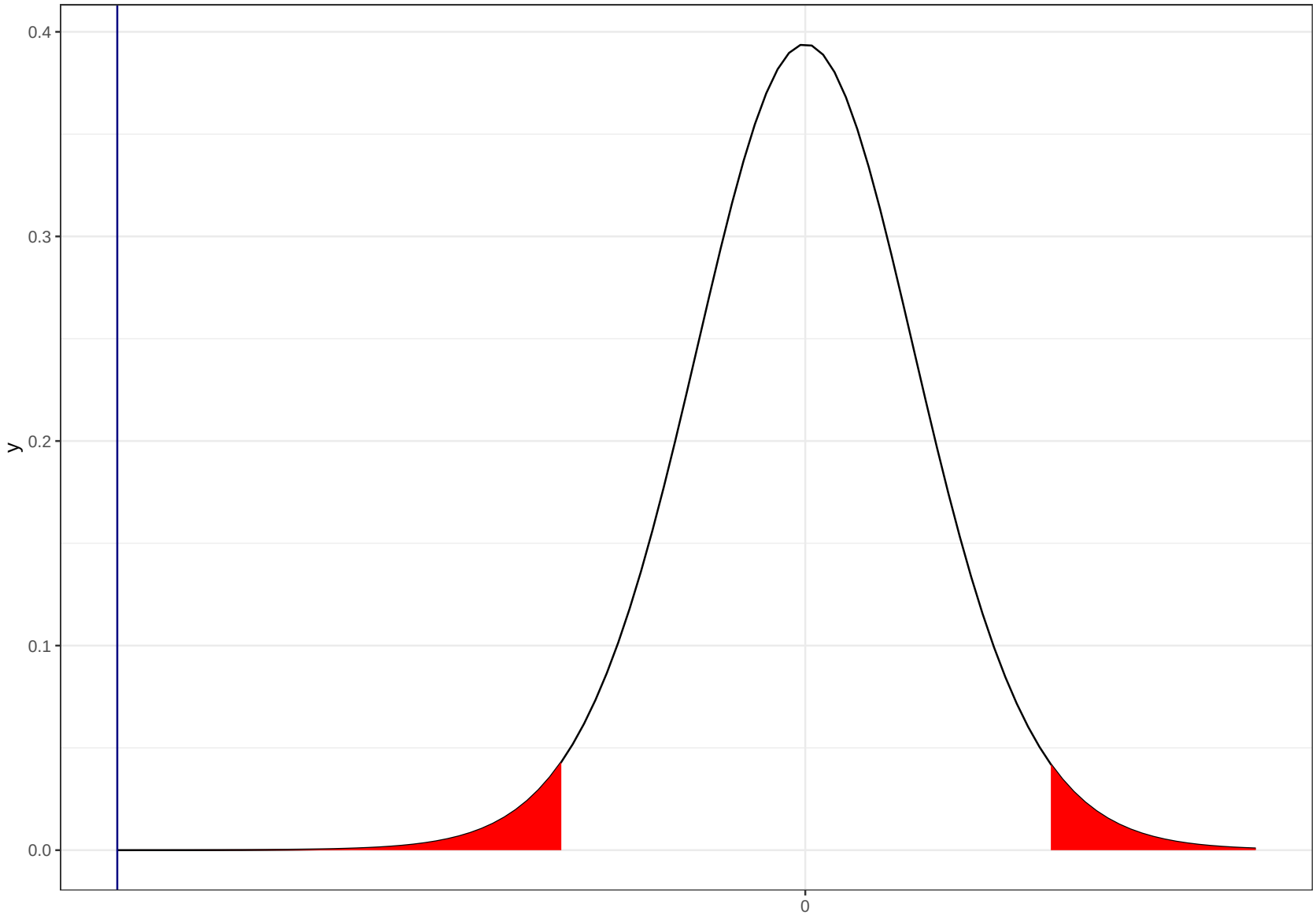
$$t_{exp} = \frac{\bar{x}_A - \bar{x}_B}{\sqrt{s_A/n_A - s_B/n_B}}$$

Orden de R

```
t.test(ancho.pie~sexo, alternative='two.sided', conf.level=
  data=pies_1920)
```

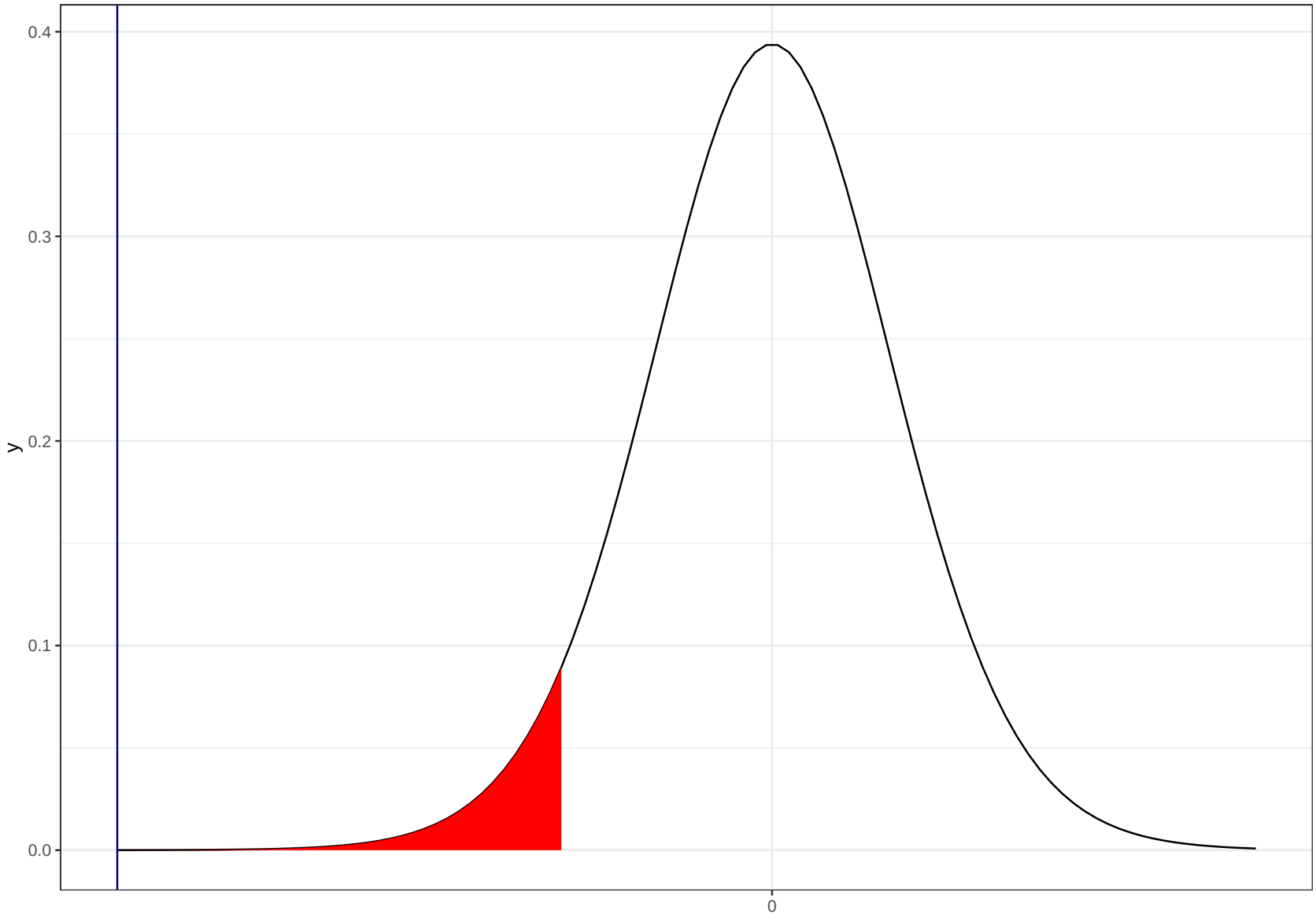
Resultado del test bilateral

```
##
##  Two Sample t-test
##
## data:  ancho.pie by sexo
## t = -6.1087, df = 51, p-value = 1.385e-07
## alternative hypothesis: true difference in means is not
## 95 percent confidence interval:
##  -3.399480 -1.717736
## sample estimates:
## mean in group Mujer mean in group Varón
##            21.01282              23.57143
```


0.4
0.3
0.2
0.1
0.0
y
0

Resultado del test unilateral

```
##
##  Welch Two Sample t-test
##
## data:  ancho.pie by sexo
## t = -5.4144, df = 18.915, p-value = 1.613e-05
## alternative hypothesis: true difference in means is less
## 95 percent confidence interval:
##       -Inf -1.741304
## sample estimates:
## mean in group Mujer mean in group Varón
##            21.01282              23.57143
```


0.4
0.3
0.2
0.1
0.0
y
0