

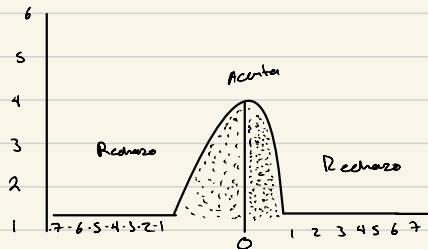
Ejercicio de prueba de hipótesis

Ejercicio Resuelto #1

$$z = \frac{\bar{X} - \mu}{\frac{\sigma}{\sqrt{n}}} = 6.32 \quad H_0 = \mu = 180$$

$$z_y = 6.32 \quad H_a = \mu \neq 180$$

$$\begin{aligned} \mu &= 180 \\ \bar{X} &= 173.47 \\ \sigma &= 4 \\ n &= 15 \\ \alpha &= 5\% \\ &(0.05) \end{aligned}$$

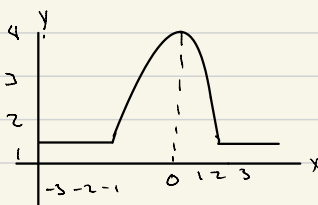


Se rechaza la hipótesis alternativa y se acepta la hipótesis nula.

Ejercicio resuelto #2

$$z = \frac{\bar{X} - \mu}{\frac{\sigma}{\sqrt{n}}}$$

$$\begin{aligned} \mu &= 175 \\ \bar{X} &= 173.47 \\ \sigma &= 4 \\ n &= 15 \\ z &= -1.5 \end{aligned}$$

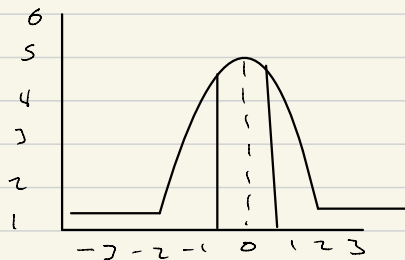


Se acepta la hipótesis alternativa y se rechaza la nula.

Ejercicio Resuelto #3

Se acepta la hipótesis alternativa y se rechaza la nula.

$$\begin{aligned} \mu &= 162 \\ \bar{X} &= 161.06 \\ \sigma &= 5.3 \\ n &= 16 \\ z &= -0.70 \end{aligned}$$



$$z = \frac{161.06 - 162}{\frac{5.3}{\sqrt{16}}}$$

Ejercicio Resuelto #4

$$n = 192$$

$$\bar{x} = 41$$

$$a = 5.8$$

$$n = 21$$

$$z = -0.55$$

$$z_c = -1.94.30$$



Se rechaza
la nula y
la negra te
la cores

Ejercicio Resuelto #5

$$\bar{x} = 0.333$$

$$p = 0.4$$

$$n = 200$$

$$z = \frac{0.4 - 0.33}{\frac{\sqrt{0.33(1-0.33)}}{200}}$$

$$0.4 - 0.33 = 0.07$$

$$1 - 0.33 = 0.67$$

$$0.33 \times 0.67 = 0.2211 \div 200 = \sqrt{0.0011055}$$

$$\sqrt{0.0011055} = 0.03324$$

$$\frac{0.07}{0.03324} = 2.1058$$