

Exercício 3:

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Um IC de p a proporção d'individuos
maledos dans $n\hat{p}$, $n(1-\hat{p}) \geq 5$ em

$$IC = [\hat{p} - E, \hat{p} + E]$$

$$\text{ou } \hat{p} = \frac{25}{150} \text{ et } E = z_{\frac{\alpha}{2}} \sqrt{\frac{\hat{p}(1-\hat{p})}{n}}$$

$$\alpha = 5\% ; z_{\frac{\alpha}{2}} = 1,96 ; n = 1000 ; 1-\hat{p} = \frac{125}{150}$$

$$E = 1,96 \cdot \sqrt{\frac{25}{150} \cdot \frac{125}{150}} \cdot \frac{1}{\sqrt{1000}} \approx 0,023$$

$$IC = [0,167 ;$$

$$E = [0,167 - 0,023, 0,167 + 0,023]$$

$$= [0,144 ; 0,190]$$