Métodos Estatísticos Capítulo 5

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Capitale 6 - teste de hipótere

- 1) Formular as hipoteses.

 Ho: hipotese base V5 H1: hipotese alternativa.
- (1) Especifica o mirel de confiança d ("confiança" 1-d).
- D & colher a estatiation de teste adquada, no presuposto de
- 3) Determinar a region critice (R.C.) P(TERC)=d (>> P(TERC)=1-d
- Galader o valor observado da estatistica de testo.
- 5) flegitor ou mão regetor hipótese Ho.
- 1) (1) Ho: p=40 000 km vs Hj:p) 40 000 km (1) mivel de rignificance = d=0,05
 - 2 \sqrt{x} descombaide $T = \sqrt{x} - \frac{y}{5} \sim N(0,1)$ m = 31; $\sqrt{x} = 43200 \text{ km}$; N = 8000 km

(3)
$$AC = \frac{1}{3}, +\infty[= 7P(t < 3) = 0.95] = 3^{165}$$
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2)
$$X = \text{"Assistancia a compressor do moderial", } \times NN (5,18; 0,25)$$

 $P = 5,18$ $\sigma^2 = 0,0625 \rightarrow \sigma = \sqrt{0,0625} = 0,25$
 $m = 12 \rightarrow \infty = 4.95$;

$$0 \propto =0.05$$
; m=12;

G como podem para testar comptee 142 cordar area na parte megativa da marnd. No consolo invotor!

5) Como tuo e RC, so vivil de 0,05, rejetamos Ho e scritamos HI

3)
$$M = 20$$
; $\sum_{i=1}^{\infty} x_i = 130.27$; $\sum_{i=1}^{20} x_i^2 = 849.98$

$$\overline{x} = \frac{1}{20} \sum_{i=1}^{20} x_i = \frac{130.27}{20} = 6.5135$$

$$D^2 = \frac{1}{19} \sum_{i=1}^{20} x_i^2 - \frac{20}{19} \overline{x}^2 = \frac{1}{19} \cdot 849.98 - \frac{20}{19} \cdot 6.5135^2 = 0.0772$$
Teste para Media
$$D = \sqrt{0.0772} = 0.278$$

a) teste para Media $OH_6: V = 6.3$ NS $H_1: V \neq 6.3$ Biloteral d = 0.0 L NK6.3 N N>6.3

② σ descentecido $\rightarrow T = \sqrt{m} \cdot \frac{x - y}{s} \sim t_{m-1} = t_{19}$

30,005, 0,99
$$\frac{1-949}{5}$$
 $\frac{1-949}{5}$ \frac

(5) Como tobo ERC, ao vival de rignificania 1%, rejeitamos Ho

b) teste para desvie padras è para desula patras para γονιανία Ho: σ= 0,52 VS,H1; σ= +2 2=1%=0,01

@ p dexombecido -> T = m-1 52 ~ Xm-1 = X2

encento à L=D que ner >Ho

and the place made podemos religer to , as nivel de rignificance de 1%