Ecroro lie semin 3 - class 3 d+ Blog Area; + & AR; + E; 1 State hypotheses 3 state test statute (+) we have GM + nomality (4) give the distribution of Assure Ho is time (5) calculate actual tet statute (6) p values; critical values; CI. · P < « · O E CI

proof by contradicition. Assume 
$$A \Rightarrow B$$

Analogy to hypothetis terting 
$$T = \frac{\hat{\beta} \cdot \mathbf{0}}{50} \sim t_{n-3}$$

$$P(-c_n \leq T \leq c_n) = 0.95$$

Type II	r (-c <sub>a</sub> = c <sub>a</sub> )
	P(-cm : \(\hat{\beta} - \beta \c cm) = 0.95
Type I	-/ ^

$$P\left(-c_{1} \leq \frac{10}{10} \leq p \leq \hat{p} + c_{1}\right) = 0.95$$

$$P\left(-c_{1} \leq \frac{10}{p-p} \leq c_{1}\right) = 0.95$$

$$tut \ \beta = 0 \qquad \Rightarrow \quad \hat{\beta} \sim N \ (\beta),$$

$$\beta = 0 \qquad \Rightarrow \qquad \hat{\beta} \sim N(\beta, V)$$

$$\Rightarrow \qquad \hat{\beta} - \beta \qquad N(0, 1)$$

Ho: 
$$\beta = 0$$
 Hipfo

 $T = \frac{\hat{\beta} - \beta}{se(\hat{\beta})} \sim t_{n-3}$ 

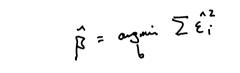
Under 16: 
$$P = 0$$

14.46 > 2

C = standard decistion

T =  $\frac{\hat{\beta} - \beta}{se(\hat{\beta})}$ 

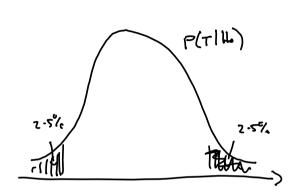
$$[\beta - 1.96 \text{ se}, \beta + 1.96 \text{ se}] = [1.14, 1.51]$$

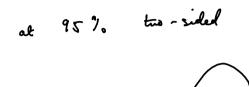


$$\beta$$
,  $\hat{\beta}$ 

$$\frac{SSR_{vr} - SSR_{v}/2}{SSR_{v}/N-3} = \frac{R^{2}/2}{(1-R^{2})^{N-3}}$$

H1: B>1 Ho: B=1







Bled - Black - (Bled - Black)







