1/pobepra Ha Xunoiezn Постановка: някаква хипотеза, се свенда до Fx (х, в) X; WSIR"; ZeW, то отхвърляме хипотезато

 $-\times, F_{\times}(x, \theta)$ Ho: 0=00 - Hyreba kunotega ? npocia ciu npocia xunoieza

H1: 0=01 - ariephaiubha xunoieza

x &w, TO priemane

-X, W, aro XeW, TO OTX b. HO unpuemame H1 Ho: 0 = 00 WERM, XEW OIX BEPARME HA x &w npuemame Ho H: : 0 = 01

TPENKA OF IBV pog: P(XEWIHO) = L= Lw Tpemka of IPu pog. P(X&W|H1) = B=BW

> WISW2 dwisdw2 Bwy = Bw2

Контролира се грешкато от Ibn pog: 2.0.05,0.1,0.01 W e kprincha odraet za rpemka of Ibn pog & Weop) (Oninmanha кријигна област) O.K.O
Наригаме W* O.k.O. при фикс. X=Zw*, ako βw*=min Bw 13 * = P(X & w* | H) = min (IP (X & w | H))

CS CamScanner

Wonyckame | Xe uber. www nn. fx(x,0), L(x,0). Ho: 0=00 XERM LICXI=L(X, DI) Lo(x) = L(x, do) $L(\vec{x},\theta) = \iint_{\Omega} f_{x}(x_{j},\theta)$ Nema] (Herman-Nuspar) Hera MMame on ben. XI c northoet $\int_{X} (X, \theta)$, ob-2 ha opologonog. $L(\vec{X}, \theta)$ u uzbagka \vec{X} . Ako W^* e kputulha obnaci c rpemka of neplen pog X, W^* . W^* fill(\vec{X}) $\geq kL_0(\vec{X})$ $\leq 3a$ Haroe k>0Toraba W* e O.K.O. za Ho: 0=00 ⊕ X ~ N(µ₁6²) Ho: Ju=µ₀
(µ₁>µ₀) , x = 0.05, ugbagka x c n Hadn.

HA: M=U1 Hn: M=H1 $L_{1}(\vec{x}) = (\frac{1}{\sqrt{20^{2}}})^{1/2} \cdot \sqrt{\frac{1}{\sqrt{20^{2}}}} = (\frac{x_{j} - \mu_{1}}{20^{2}})^{2}$ $L_0(\vec{x}) = \left(\frac{1}{6\pi}\right)^n \int_0^{\pi} e^{-\frac{(x_5 - \mu_0)^2}{26^2}}$ Today & -x = K - n. Mo W*= 2 2, = \$20 \$ u P(x ew* | Ho) = 2. = 1-\(\tilde{\Sigma}(\tilde{\Sigma})^2\) = \(\frac{\Sigma}{2\sigma^2}\) = \(\frac{\Sigma}{2\sigma}(\tilde{\Sigma})^2\) = \(\frac{\Sigma}{2\sigma}(\tilde{\Sigma})^2\) = \(\frac{\Sigma}{2\sigma}(\tilde{\Sigma})^2\) + 2\(\frac{\Sigma}{2\sigma}(\tilde{\Sigma})^2\) = \(\frac{\Sigma}{2\sigma}(\tilde{\Sigma})^2\) + 2\(\frac{\Sigma}{2\sigma}(\tilde{\Sigma})^2\) = 2\(\frac{\Sigma}{2\sigma}(\tilde{\Sigma})^2\) = \(\frac{\Sigma}{2\sigma}(\tilde{\Sigma})^2\) + 2\(\frac{\Sigma}{2\sigma}(\tilde{\Sigma})^2\) = 2\(\frac{\Sigma}{2\sigma}(\tilde{\Sigma})^2\) = \(\frac{\Sigma}{2\sigma}(\tilde{\Sigma})^2\) = \(\frac{\Sigma}{2\sigma}(\tilde{\Sigma}) = { 2/m-40) Exx; > 252lnx+n(m12-402)} = BHORM, RE K-11-40=91-2

Numerica perpecus Yenn = a + B (ysaya -a) cpegen peri 50.6 f (bold (yk-gk)2. Y = Bo + B1. X + E > rpewika E(4x-60-61/2) X = 2 X; 3 60 5 - 2 2 (yx-bo-b1xx) = Ny-Nbo-b1 NX => bo= y-b1x 9 = ž 3 2 f = 0 = -2 \(\Sigma \times \(\Sigma \) = \(\Sigma \times \Sigma \times \(\Sigma \) = \(\Sigma \times \Sigma \times \Sigma \times \Sigma \times \Sigma \times \Sigma \times \Sigma \Sig $b_{1} = \frac{\sum x_{k}y_{k} - Nx\bar{y}}{\sum x_{k}^{2} - N(\bar{x})^{2}} = \frac{\sum (x_{k} - \bar{x})(y_{k}, \bar{y})}{\sum (x_{k} - \bar{x})^{2}} = \frac{\sum (x_{k} - \bar{x})}{\sum (x_{k} - \bar{x})^{2}} dx$ bosy-bix = Z/(1-x Z/(xx-x))/yx A= Z(xx-x)2 Ck= Xk-X $\sum_{k=0}^{\infty} C_k = 0 = \sum_{k=0}^{\infty} \sum_{k=0}^{\infty} C_k = 0$ bis Ecklyk bo= 2 (1/4 - x. Ck) yx bo= = (1 - xck) yk A= [(xk-x)2] go Hez ca MuH. Croxacturen Mogen JK=Bo+BIXK+EK

CHOXACTUCHA TPEMKA -(E11-1En) - ca nezabnemm 6 ezbrynnoet - E[E;] = 0 , j= Dyn - nunda cueremainena pemra - D[Ej]=62 - XOMOCKEgaeinchoer

-E;~N(0,52), j=1,1

$$\begin{split} & \hat{\beta}_1 = b_1 * \overset{2}{\gtrsim 1} \frac{1}{N} \frac{(X_K - \bar{X})}{N} \cdot \hat{y}_K * \overset{2}{\gtrsim 1} C_K \cdot \hat{y}_K \sim N(\beta_{11} \frac{1}{N}) \\ & \hat{\beta}_0 * b_0 * \overset{2}{\gtrsim 1} \frac{1}{N} \frac{1}{N} \cdot \frac{1}{N}$$

$$\hat{G}^{2} = \frac{1}{N-2} \sum_{k=1}^{N} (y_{k} - b_{0} - b_{1} \cdot x_{k})^{2} \approx G^{2}$$

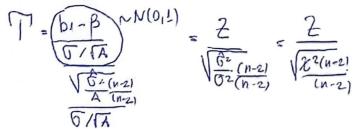
Apobepka Ha Xunoilezy

52 e uzberino

52 He e uzbecina

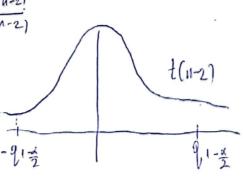
$$\frac{G^2}{1} = \frac{b_1 - \beta}{\sqrt{\frac{G^2}{A}}} \in t(n-2) \qquad \frac{\mathring{G}^2}{G^2}(n-2) \in \mathring{\chi}^2(n-2)$$

$$\frac{\mathring{S}^{2}}{\mathring{\sigma}^{2}}(n-2) \in \mathring{\chi}^{2}(n-2)$$



$$I_1 = b_1 - 21 - \frac{d}{2} \sqrt{\frac{\hat{G}^2}{A}}$$

$$II_2 = b_2 + q_1 - \frac{1}{2} \sqrt{\frac{6^2}{A}} \quad E(n-21 \sim N(0,1))$$



$$\frac{2}{2} = \frac{60 - \beta}{6^{2}} \sim N(0,1)$$

Heuzberiho 6^{2}
 $\frac{1}{1} + \frac{x^{2}}{A}$
 $\frac{1}{1} + \frac{x^{2}}{A}$
 $\frac{6^{2}}{1} + \frac{x^{2}}{A}$