F- Lest - 5 1 1 Lest lee model unrestrictedly of Brot
ue could bore BUIXND (BO 1(X'X) EE) upose le reduction Somestrides
le a la do ashto
1) word test statute RB-c/XN(RB-c; ?R(X'X)-R')
Restricted boost squares: Find a set of coefficients & (OLS)
leart squares
What satisfies the special problem $\beta = \frac{1}{\beta} = \frac{1}{$
0.8 = 0.
SAX = A!
$L(\beta, \Lambda) = \frac{1}{2}(y - x\beta)(y - x\beta) + \lambda'(\beta\beta - c)$ $L(x, \mu) \text{ (artiflization)}$ $L(x, \mu) \text{ (artiflization)}$
1B = (X'X)B - X'Y + R'X = 0 First order condition
δλ. o × o
The RB-c=0 to south we have bound
When of make we want
(XX)B-XY+E'X=0 p X=0 me one back to
, further by (XX)
$(x'x)(x'x)\beta - (x'x)^{-1}x'y + (x'x)^{-1}R'X = 0$
B-B=-(X/X)P/X NXM L suct a square, not wentile,: con NXM L suct a square, not wentile,: con

$$R\beta - R\beta = -[R(x|x)R]x$$

$$\frac{11}{C}$$
Flag ble symb
$$R\beta - C = [R(x|x)R]x$$

N = [R(X|X)R] (RB-C)

The constraint is an forth of the part of price that is a point of the poi

B=B-(X'X) R' LR(XX) R'] (RB-c)

B=B when (RB-C)=O house whom B is observed soldying the constraints

RB=BB-R(x1x)-'R'[R(x1x)-'R']-'(BB-c)

RB=c i dotoin exodente conduments, les computations mere right so

Restricted residuals

$$\tilde{\epsilon} = \gamma - \chi \tilde{\beta}$$
 $\tilde{\epsilon} = \gamma - \chi \left[\hat{\beta} - (\chi'\chi) \tilde{\beta}' \left[R(\chi'\chi) \tilde{\beta}' \right] \left[R \tilde{\beta} - c \right] \right]$

 $= \overset{\wedge}{\varepsilon} + \chi(\chi^{1}\chi)\overset{-}{F}$

i vould like to coupet to 228 = 828 Router to truded noted

εε = [ε+ ×(x'x) - 'R'] R(x'x) - 'R'] - (Rβ-c). [& +x (x'x) 'g'[R(x'x) - 'R'] 'CRB-c) (atb)(atb) 2'E = ê'ê + ê'x(xx)-'R'[R(xx)-'R']-'(Rβ-c) +(Rβ-c)[R(x'x)-'R'] R(x'x)-'R']+(Rβ-c) +(Rβ-c)[R(x'x)-'R'] R(x'x)-'R'] α (x'x)-'X' ε' (x'x)-'R'] α (x' +(R\$-0)[R(x1x)-1R1]-R(x1x)-K1x(xx) R1[R(x1x)-1R1](ap.) = {!\delta + (RB-c) [R(X'X)'R'] [RB-c) -> such it is a

when do F-test

-> such it is a 313 - 313 F-test = (AB-c) [RCx'x7'P'] (RB-c)/ NF(N, N-4) $\frac{3}{3} = 3^{\varepsilon}$ $F_{-} \det = \frac{\tilde{\epsilon}' \tilde{\epsilon} - \tilde{\epsilon}' \tilde{\epsilon}' r}{\tilde{\epsilon}' \tilde{\epsilon}} = \frac{\tilde{\epsilon}' \tilde{\epsilon} - \tilde{\epsilon}' \tilde{\epsilon}'}{\tilde{\epsilon}' \tilde{\epsilon}} \cdot \frac{N-k}{r} N F(r, N-k)$ $\frac{\tilde{\epsilon}' \tilde{\epsilon}}{N-k} = \frac{\tilde{\epsilon}' \tilde{\epsilon} - \tilde{\epsilon}' \tilde{\epsilon}'}{\tilde{\epsilon}' \tilde{\epsilon}} \cdot \frac{N-k}{r} N F(r, N-k)$ $\frac{\tilde{\epsilon}' \tilde{\epsilon}}{N-k} = \frac{\tilde{\epsilon}' \tilde{\epsilon} - \tilde{\epsilon}' \tilde{\epsilon}'}{\tilde{\epsilon}' \tilde{\epsilon}} \cdot \frac{N-k}{r} N F(r, N-k)$ fac tones unstead of our (like in) vorson

(), AGNOSTIC TESTS: to: Y=XB+E LINEARITY: H1: Y = XB + 42 81 + 43 12 + M Reset test Ge ton on the Freizence te systeme it is a new to dollarge the model that we work to be come to F-leston She to be connect م بهضي off contrad me on Ozsleito 2 repromonents le let is not substructure under les affermature Is use con just how to have a fisher that maladag W=[x,42,43] H1: Y=W4+M the highest is (n+3x1) = [B', Y1, Y2] de higher is eque torero F-test = $(R \psi' - c) \left[R(w'w)' R' \right] (R \psi' - c) / 2$ (reset) _____ (N-K-2) Sh estudios of the remove of the B on the orandomy roadel