If Z = C x , C is a madix then cor(Z) = C cor(x)C a) +(cA) = c+(A))+(A+B)= +(A) ++(B) C is a vector var(c'x) = c'\sc where \subsete = cou(x) + (BY AB) = +ica) [not used but included]
+ (AA) = \$\frac{2}{2} \frac{2}{2} \left[not used but included] Enot used but included

+(A) = 5 / \i

EE = (Y-9) (Y-9) = EE
= [(I-+)Y] (I-+)Y The distribution of st 1 this is the RSS 3= K(H-I)/

E'E = [(1-+)Y]'(1-+)XB+E) 1=xB+E = [(E++) Y] (0+(E++)E) [(3(4-2)) [(3+4x)(4-I)]= (T-# X = 0

3(4-4)/[3(4-4)]= 3(H-T)[(H-T)]/3=

(I-+)=I-+, (I-N=I-+

Look at I-H +(H)-+(X(X/X)X/)=+(B/X)X/X) リか(日至)

3(4-1)3=

(f-H)2-J-H Ris are 9/ 00 N-(KH) are 15 and

Where $V_{L} = e_{L}' \mathcal{E}$; $Var(V_{L}) = e_{L}' cov \mathcal{E} e_{L} = e_{L}' \sigma^{2} \mathcal{I} e_{L} = \sigma^{2}$ 5. 8 = 8' () eich + ... + Den-charle n-charle en-charle) } & > = 6. 8/2 = E'(I-4)E But K+1 off me ciganvalues are Zero - choose more to be last Since (au(VC) Y) = 0 Y is indept Y

E'E = 15/100 / C is indept Y

E'E = 10/100 / C is indept Y So, since Ve = REE, ENN : YEN = E'(\lambda, e,e' + \lambda, e,e' + \lambda, nenen) & spechal decomposition = 1, E'c,e, E + ... + \ n_-c, + \ 2 (-n_-c, +) \ E'c_n_-c, + \ 2 リカノインナ・・・・ナンのとなりべんとなり Distribution 252 X n. (k+1) 5