15-tuples(*4 4)

P(A eg)

Mean(4) = 38.3 cm

Ranfall (x); Rangf (4) (U Cov (X,Y) = 141.0857 (2) (ov(x,x) = 250.0357(3) (or (Y,Y) = 117.53J7 Covaewance Matria (ov(x,4) (OV(XX) co~(xx) (vx(y,y)

(ov(x,x) (ov(x,y) (ov(y,y)/ COV(Y,X) (OV Matrix 250.0357 141.0857 117.5357 141.0857 Calculate Eigen values & Eigen reche y Con. tration. 250.0357 141.0857 117.5357 141.0857

$$= 0$$

$$= (141.0857 + 141.0857)$$

$$= (141.0857 + 141.0857)$$

$$= 0$$

199

$$= 29388.12102 - 250.03577$$

$$-117.53577 + 72$$

$$-19905.17474$$

$$7^2 - 367.57147 + 9482.946289 = 0$$

Fisen

Eigenvecho: [A-TI(=0 A= 250. 8357 141.0857 141.0857 117.5357 $\mathcal{Z} = \begin{pmatrix} 1 & 0 \end{pmatrix}$

|A-TI| = |250.0357-T|141.0857|41.0857|

= 0

$$\begin{array}{c} 7 = 339.65178 \\ 2) = 89.61608 & 141.0857 & 141.0857 & 141.0857 & -222.11608 & 74 & 60 \\ 2) = -89.61608 & 2) + 141.0857 & 20 \\ -89.61608 & 2) + 141.0857 & 20 \\ -89.61608 & 2) + 141.0857 & 20 \\ -89.61608 & 2) + 141.0857 & 20 \\ -89.61608 & 2) + 141.0857 & 20 \\ -89.61608 & 2) + 141.0857 & 20 \\ -89.61609 & 20 \\ -89.61609 & 20$$

222.11609 M1 + 141.0857 M, 20 141.0857 M.) + 89.61609 M1 =0

Final Amey:
(1) Eigen Values:
27.919612;

339.6517875

(2) Eisen Veely; U > = 27.919612

-0.6351890

= 339.6517875 1-57433451