CRES CLL788

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	Date
V1: 2 3 5 7 Y2: 1 4 0 6	9
72: 1 4 0 6	2
$\frac{71}{1} = \frac{2+3+5+70}{1}$	
$Y_1 = 2+3+5+7+9 = 5.$	
$\frac{1}{2} = 1 + 4 + 0 + 6 + 2$	2 (
Y2 = 1+4+0+6+2 5	2.6
Stand andising the date by centering	y it.
(Y i = V 1) ·	
	-0.2 1.8 3.8
$(\sqrt{1.4} - \sqrt{2})$: -1.6 1.4	-2.6 3.4 -0.6
Covanianu Matria	
$C = \begin{bmatrix} Cov(Y, Y, Y) \end{bmatrix}$	
C = (0v	(Y, Y2)
(Ov (Y2) Y1) CON	(Y2 Y2)
$Cov(Y,Y_1)=\sum_{i\geq 1}(Y_{i,i}-i)$	\
$Cov(Y,Y_1)=\sum (Y_1,-)$	$(Y_{1i} - \overline{Y_{i}})$
. (3	•
$= (-3.7)^2 + (7.2)^2$	2+ 1-0.012
$= (-3.2)^{2} + (-2.2)$ $+ (1.8)^{2} +$	(3.812
5	
Spiral	
⇒p vrac	

Date..... Yuin- X COV (YL YL) 1.6) 2+ (1.4)2+ (-2.6)2+ (3.4) +(-0.6 4.64 cov (y, 2.2)(1.4)+(-0.2)(-26) (-16)+ 1.28 1.28 Covaniane Matris: 6.56 2 4.64 1.28 principal direction corres pondin C- NI =0 1.28 6.56 0 4.64 0 1.25 Spiral

= 0

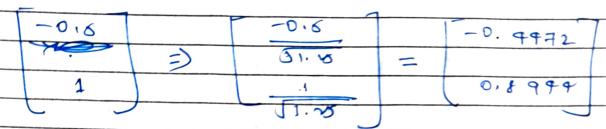
$$\lambda^2 - 11.2\lambda + 28.8 = 0$$

Eigen rectors corresponding to eigen values. $CO = \lambda V$

Spiral

Date.....

=> Y,=-0.6y,



eign vector correspond to >= 4.

Transforming the data into the new coordinate space

Date..... 2.19666 0 -2.69 376 2236 0,9838 -2.236 0,08944 2.231 3.6670 4 -2.236 -2.14666, -2.6976, 0.98387, 0.08994, 008949, 3.66704 0, 2.236, -2.236, 2.236, -2.236

Spiral