$$(a_{N}(a_{1}b)) = 1 \qquad (a_{N} - \overline{a}) \qquad (b_{N} - \overline{b}) \qquad \text{mean } db$$

$$(a_{N} - \overline{a}) \qquad (b_{N} - \overline{b}) \qquad \text{mean } db$$

$$(a_{N} - \overline{a}) \qquad (b_{N} - \overline{b}) \qquad \text{mean } db$$

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$$\frac{1}{2} \left(\frac{1}{2} \right) \left(\frac{1}{11 - 8 \cdot 5} \right) + D + \left(\frac{1}{13 - 8} \right) \left(\frac{1}{11 - 8 \cdot 5} \right) + Ci \left(\frac{1}{11 - 8 \cdot 5} \right) \right)$$

$$= \frac{1}{3} \left(\frac{-10 - 17 \cdot 8 + 8 \cdot 5}{3} \right) = \frac{-22}{3}$$

$$Cov(2ig) = -1$$

$$\frac{1}{2} \operatorname{Cov}(y_1 x) = \operatorname{Cov}(x_1 y)$$

$$= \operatorname{Cov}(y_1 x) = -11$$

$$F \left(\cos \left(\frac{1}{3} \right)^{2} \right) = \frac{1}{3} \left[(2.8)^{2} + (-3.5)^{2} + (3.5)^{2} + (-0.8)^{2} \right]$$

$$= \frac{1}{3} \left((8.25 + (2.25 + 30.25 + 0.25) \right)$$

$$= \frac{69}{3} = 2 \left(\cos \left(\frac{1}{3} \right)^{2} \right) = 23$$

- solve this en for A & dz

7 Prost principle component 7

formb:
$$(S-1, I)(V_1) = 0$$
 Eigen vector for A_1

$$\begin{bmatrix}
(14-d_1) & \mu_1 & -11\mu_2 \\
-11 & \mu_1 & +(23-\lambda_1) & \mu_2
\end{bmatrix} = \begin{bmatrix}
0 \\
0
\end{bmatrix}$$

$$= \frac{14 - \lambda_1}{4} - \frac{11}{4} = 0$$

$$= \frac{11}{4} + \frac{12}{4} = 0$$

=)
$$(14-h) M = 11M2$$

=) $\frac{M}{11} = \frac{M_2}{19-A_1} = t$

?. Cijen Neetor
$$(U_1)$$
: $\begin{bmatrix} 11 \\ 14-11 \end{bmatrix}$ \Rightarrow $\begin{bmatrix} 11 \\ -16.3849 \end{bmatrix}$

$$e_{1} = \begin{bmatrix} \frac{11}{\sqrt{11^{2} + (-16.3849)^{2}}} \\ \frac{-16.3849}{\sqrt{11^{2} + (-16.3949)^{2}}} \end{bmatrix} = \begin{bmatrix} -0.8874 \\ -0.8303 \end{bmatrix}$$



$$f' = e_1 T \left[Y - mean(x) \right] = e_1 T \left[Y - 8 \right] = 0.8874 - 0.8308 \right] \left[\frac{-4}{2.8} \right]$$

:. new dataget

,						
		Ex,	Ex 2	Ex 3	Exy	Ī 🏄
,	PC,	_ 4.3082	3-7361	5.6928	-5.1238	,