12) casum tenge streats

$$B = 6, 85, 726, 85, 726, 85, 72$$
  
 $C = 3, 70,603, 70,603, 70,60$ 

matrin 
$$\mathcal{X} = \begin{bmatrix} 4 & 80 & 654 \\ 6 & 85 & 726 \\ 3 & 70 & 603 \end{bmatrix}$$

$$=(0.4 \times 6) + (0.3 \times 83) + 6$$

$$= 2.4 + 25.5 + 217.8$$

$$= 245.7$$

$$= \frac{1}{4} \times 0.4 + 80 \times 0.3 + 654 \times 0.3 \approx$$

$$= 1.6 + 24 + 196.2$$

$$= 221.8$$

$$= 6 \times 0.4 + 85 \times 0.3 + 726 \times 0.3$$

$$= 2.4 + 25.5 + 217.8$$

$$= 245.7$$

$$3^{24} = 3 \times 0.4 + 70 \times 0.3 + 603 \times 0.3$$

$$= 1.2 + 21 + 180.9$$

$$= 203.1$$

$$= 2 \times 4 + 0 \times 80 + 0 \times 654$$

$$= 0 \times 4 + 1 \times 80 + 0 \times 654$$

$$= 0 \times 4 + 0 \times 480 + 0 \times 654$$

$$= 0 \times 4 + 0 \times 480 + 0 \times 654$$

$$= 0 \times 4 + 0 \times 480 + 0 \times 654$$

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$$= 0 \times 4 + 0 \times 480 + 0 \times 654$$

$$= 0 \times 4 + 0 \times 654$$

$$= 0 \times 4 + 0 \times 654$$

$$= 0 \times 640 + 0 \times 640$$

$$= 0 \times 640$$

$$=\frac{4-3}{6-3} = 0.333$$

Q17: -> Compute fur tollideur distance bio

Distance by And B = 
$$[(6-4)^2 + (85-80)^2 + (726-654)^2]$$
  
=  $\int 2^2 + 5^2 + 72^2$   
=  $\int 4 + 25 + 51829$   
=  $\sqrt{5.213}$   
=  $72.204$ 

(n,p)

$$= (5,3) \quad (3,1) \\ = (5,1)$$

$$922 = P(A) = 2, 4, 6$$

$$P(B) = 4,56$$

$$a_{1}$$
  $p(A)$   $p(B)$   $= (2,46)$   $= 36$   $= \frac{1}{2}$   $= \frac{1}{2}$   $= \frac{1}{2}$ 

A) 
$$2x+y = 2$$
 — (1)  
 $1+1 = 3$  — (2)

$$2 - 1 = -26$$

$$-42 - 4y = -62$$

$$= 104 - 49 - 49 = -6$$

$$-89 = -6$$

$$n = -26 + 13 - 75$$

$$A = \begin{bmatrix} -1 & 1 & -2 \\ 0 & -2 & 1 \end{bmatrix} B = \begin{bmatrix} -1 & 2 & 0 \\ 0 & -8 & 4 \end{bmatrix} (-1 - 3 - 3 - 4)$$

$$b_{2}\begin{bmatrix} -2 & 6 \\ -5 & 2 \end{bmatrix} = \begin{bmatrix} 3 \\ 5 \\ -11 \end{bmatrix} = \begin{bmatrix} -1 & 0 & 2 \\ -2 & -3 & 4 \\ 1 & 4 & -3 \end{bmatrix}$$

if where  $2^{n}$  row

A AB 
$$2\times3$$
  $3\times3$  Possible

BC  $3\times3$   $1\times5$  Not

AD  $2\times3$   $2\times2$  Not

Ef  $3\times1$   $3\times3$  Not

FE  $3\times3$   $3\times1$  Possible

$$AB = \begin{bmatrix} -1 & 1 & -2 \\ 0 & -2 & 1 \end{bmatrix} \times \begin{bmatrix} -1 \\ 0 & -3 & 4 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 & -2 & 3 \end{bmatrix} \leftarrow \begin{bmatrix} -1 & -2 & 3 \\ -1 &$$

$$\begin{array}{r} -2 + -3 + 4 \\ = -1 \\ \hline 2200000 - 100 + 100 + 100 + 200 \\ = 0 + 4 + -6 = -2 \end{array}$$

$$\begin{aligned}
fE &= \begin{bmatrix} -1 & 0 & 27 \\
-2 & -3 & 4 \\
1 & 4 & 3 \end{bmatrix} & E &= \begin{bmatrix} 3 \\
5 \\
-11 \end{bmatrix} \\
-1 \times 3 + -22 &= -28 \\
-6 + -15 + 33 &= 12 &= \begin{bmatrix} -28 \\
12 \\
56 \end{bmatrix} \\
3 + 20 + 33 &= 56
\end{aligned}$$

find the eigenvertes and eigenvertes

$$A = \begin{bmatrix} 2 & 0 \\ 0 & 3 \end{bmatrix}$$

$$\begin{array}{c|c} \mathbf{Ao} & \begin{bmatrix} 2 & 0 \\ \mathbf{0} & 3 \end{bmatrix} & -\lambda \times \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} \\ = \begin{bmatrix} 2 & 0 \\ 0 & 3 \end{bmatrix} & -\begin{bmatrix} \lambda & 0 \\ 0 & \lambda \end{bmatrix} & = \mathbf{O} \end{array}$$

$$\begin{bmatrix} 2-\lambda & 0 \\ 0 & 3-\lambda \end{bmatrix}$$

$$\begin{bmatrix} 2-\lambda & 0 \\ 0 & 3-\lambda \end{bmatrix}$$

$$\begin{bmatrix} \gamma = 12 & 07 & \gamma_3 = -3 \end{bmatrix}$$

$$\begin{cases}
4 - 21
\end{cases}$$

$$(A - 21) x = 0$$

$$\begin{bmatrix} 0 & 0 \\ 6 & 1 \end{bmatrix} - \begin{bmatrix} \gamma_1 \\ 2i_2 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

$$u_{2}^{2} = 0$$

$$u_{3} = k$$

$$u_{4} = k$$

$$u_{5} = 0$$

$$u_{7} = 0$$

$$\begin{bmatrix} 2 - 3 & 0 \end{bmatrix} \begin{bmatrix} 2 \\ 2 \end{bmatrix} \begin{bmatrix} 2 \\ 2 \end{bmatrix} \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

$$\begin{bmatrix} -1 & 0 \\ 0 & 0 \end{bmatrix} \begin{bmatrix} 21 \\ 22 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

$$\mathcal{H}_1 = 0 \qquad \mathcal{H} = \begin{bmatrix} 0 \\ 1 \end{bmatrix}$$

$$\mathcal{H}_2 = k$$

$$B = \begin{bmatrix} 4 & 1 \\ 2 & 3 \end{bmatrix} \begin{bmatrix} A - \lambda I \end{bmatrix} = 0$$

$$\begin{bmatrix} 4 - \lambda & 1 \\ 2 & 3 - \lambda \end{bmatrix} = 0$$

$$=(4-\lambda)(3-\lambda)-(1)(2)$$

$$= (2-4\lambda - 3x + \lambda^2 - 2)$$

$$= \lambda^2 - 7\lambda + 10$$

(6) 
$$A = \begin{bmatrix} -2 & 1 \\ 12 & -3 \end{bmatrix}$$

$$\begin{bmatrix} -2-\lambda & 1 \\ 12 & -3-\lambda \end{bmatrix} = 0$$

$$\begin{cases}
-2 - (-6) & 1 \\
12 & -3 - (-6)
\end{cases}
\begin{bmatrix}
\chi_1 \\
\chi_2
\end{bmatrix} = \begin{bmatrix} 6 \\
0 \end{bmatrix}$$

200 g n= 1

$$27/1 + 2/2 = 0$$
  $2/2 = 47/1$ 

with  $2/1 = 0$  =>  $2/2 = 4$ 
 $2/2 = 4$ 
 $2/2 = 4$ 

17 e-commens gite

$$i_{3}(4x3 + 2x1 + 1x0)$$

$$= 12 + 2 = 14,$$

2 11, 15 f 37d

18, A cogistie company models

wh = wx0.5+(0.5)(1.2)+(0.6)(0.8)

$$= 5 + 0.6 - 0.48$$

$$= 5.12$$

$$= (15 * 0.5) + (0.8 * 12) + (0.3) (0.8)$$

$$= 7.5 * 0.96 - 0.29$$

$$= 8.22$$

$$(8) (8.5) + (0.3) (1.2) + (0.9) (3.4)$$

$$(8)(8.5) + (0.3)(1.2) + (0.9)(-0.8)$$

$$= 4 + 0.3(-0.7)$$

$$= 3.64$$

$$= (25/30)(30/100) = 25 = 0.625$$

customer = 3, 1, 123  
weight for Prediction medial = 
$$[1.5, 2, 0, 0.31]$$
  
Charm Score =  $[1.5 \times 3 + 2.0 \times 1 + (-0.3) \times 12)$   
=  $4.5 + 2 - 3.6$ 

21, 9) 
$$P(5fady > 5 hours)$$

$$\frac{\pi 0}{100} = 0.5$$

= 2.9