$$\frac{N1}{A} = \begin{pmatrix} -1 & -6 \\ 2 & 6 \end{pmatrix}$$

$$\begin{vmatrix} -1 - \lambda & -6 \\ 2 & 6 - \lambda \end{vmatrix} = (-1 - \lambda)(6 - \lambda) + 12 = -6 + \lambda - 6\lambda + \lambda^2 + 12 = -6 + \lambda^2 +$$

$$\frac{Orb:}{\lambda = 2} \quad \lambda = 3 \quad ; \quad (3; -2)$$

$$\lambda = 2 \quad ; \quad (2; -1)$$

$$\frac{NQ}{A = \begin{pmatrix} -1 & 0 \\ 0 & -1 \end{pmatrix}}$$

$$Ax = \lambda x$$

$$Ayers x = \begin{pmatrix} a \\ a \end{pmatrix}$$

Nyers
$$X = \begin{pmatrix} a \\ b \end{pmatrix}$$
, Turga $\begin{pmatrix} -1 & 0 \\ 0 & -1 \end{pmatrix} \begin{pmatrix} a \\ b \end{pmatrix} = \lambda \begin{pmatrix} a \\ b \end{pmatrix}$

$$\begin{cases} -a = \lambda a \rightarrow \lambda = -1 \\ -b = \lambda b \rightarrow \lambda = -1 \end{cases} =) \times = (a, b) - \text{coordenabut bentop}$$

$$\text{unperson one paropa } A,$$

$$\text{rge } a \text{ u } b - \text{proofine reache}.$$

$$\frac{\sqrt{3}}{A} = \begin{pmatrix} 1 & 1 \\ -1 & 3 \end{pmatrix} \qquad \times = \begin{pmatrix} 1 & 1 \\ 1 & 3 \end{pmatrix}$$

$$Ax = \lambda x$$

$$\begin{pmatrix} 1 & 1 \\ -1 & 3 \end{pmatrix} \begin{pmatrix} 1 \\ 1 \end{pmatrix} = \lambda \begin{pmatrix} 1 \\ 1 \end{pmatrix}$$

$$\begin{cases} 2 = \lambda \\ 2 = \lambda \end{cases} = \chi = (1,1) - \cos \beta \beta$$

$$\frac{N4}{A} = \begin{pmatrix} 0 & 3 & 0 \\ 3 & 0 & 0 \\ 0 & 0 & 3 \end{pmatrix} \times = \begin{pmatrix} 3; -3; -4 \end{pmatrix}$$

$$Ax = \lambda X$$

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

$$\begin{cases} -9 = 3\lambda \\ 9 = -3\lambda \end{cases} \begin{cases} \lambda = -3 \\ \lambda = -3 \end{cases} \longrightarrow X - \text{ne ableance coolingue}$$

$$\begin{cases} -12 = -4\lambda \\ \lambda = 3 \end{cases} \end{cases} \lambda = 3$$
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