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

$$det(\lambda x - A) = 0$$

$$det(\lambda \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} - \begin{bmatrix} 2 & 3 \\ -1 & -6 \end{bmatrix}) = 0$$

$$det(\lambda - 2\lambda - 12 + 3) = 0$$

$$\lambda^{2} + 4\lambda - 5 = 0$$

$$\lambda = 1$$

$$(1x - A) \times = 0$$

$$(1x$$