

MATRICESSISTEMAS DE ECUACIONES MATRICIALES

1. Resuelve los siguientes sistemas:

$$\bullet \quad \begin{cases} 5X + 3Y = \begin{pmatrix} 2 & 0 \\ -4 & 15 \end{pmatrix} \\ 3X + 2Y = \begin{pmatrix} 1 & -1 \\ -2 & 9 \end{pmatrix} \end{cases}$$

$$\bullet \quad \begin{cases} 3X - 2Y = \begin{pmatrix} 7 & 3 \\ 16 & 4 \end{pmatrix} \\ X + 3Y = \begin{pmatrix} 6 & 12 \\ -2 & 27 \end{pmatrix} \end{cases}$$

$$\bullet \quad \begin{cases} 2X - Y = \begin{pmatrix} 2 & -3 \\ 1 & -5 \end{pmatrix} \\ X + 2Y = \begin{pmatrix} 1 & -4 \\ 3 & 0 \end{pmatrix} \end{cases}$$

$$\bullet \quad \begin{cases} 5X - 7Y = \begin{pmatrix} -2 & 0 & -1 \\ 3 & 4 & 5 \end{pmatrix} \\ -2X + 3Y = \begin{pmatrix} 0 & -1 & 2 \\ 4 & -5 & 7 \end{pmatrix} \end{cases}$$

$$\bullet \quad \begin{cases} 2X - 3Y = \begin{pmatrix} 1 & 5 \\ 4 & 2 \end{pmatrix} \\ X - Y = \begin{pmatrix} -1 & 0 \\ 3 & 6 \end{pmatrix} \end{cases}$$

2. Halla dos matrices A y B tal que:

$$\begin{cases} 2A + 3B = \begin{pmatrix} 8 & 4 & 7 \\ 18 & 11 & -6 \\ 8 & 3 & 13 \end{pmatrix} \\ -A + 5B = \begin{pmatrix} 9 & -2 & 16 \\ 17 & 1 & -10 \\ 9 & 5 & 13 \end{pmatrix} \end{cases}$$



C2 Academia

