

UD 5.- Sistemas de ecuaciones - Vídeo 3 - Método de reducción

domingo, 7 de enero de 2024 17:32

3. Método de Reducción

$$\begin{array}{l} 2x - 3y = 8 \\ 3x + 2y = -1 \end{array} \left\{ \begin{array}{l} 2 \cdot (2x - 3y = 8) \\ -3 \cdot (3x + 2y = -1) \end{array} \right. \left\{ \begin{array}{l} 4x - 6y = 16 \\ -9x - 6y = 3 \end{array} \right. \left\{ \begin{array}{l} -4x + 6y = -16 \\ -9x - 6y = 3 \end{array} \right. \left\{ \begin{array}{l} -13x = -13 \end{array} \right.$$

$$3 \cdot 1 + 2y = -1$$

$$3 + 2y = -1$$

$$2y = -1 - 3 \rightarrow 2y = -4 \Rightarrow \boxed{y = \frac{-4}{2} = -2}$$

$$\boxed{x = \frac{-13}{-13} = 1}$$

$$\text{Solución} \rightarrow \boxed{x=1 \quad y=-2}$$