

Sistema de ecuaciones lineales

Bit Planet

Solución Metodo eliminación

$$\begin{cases} 2x + 3y = 5 \\ 5x - 2y = -16 \end{cases} \quad \begin{cases} 5(2x + 3y = 5) \\ -2(5x - 2y = -16) \end{cases}$$

$$10x + 15y = 25$$

$$-10x + 4y = 32$$

$$+ \quad 10x + 15y = 25$$

$$-10x + 4y = 32$$

$$0x + 19y = 57$$

$$y = \frac{57}{19} = 3$$

$$19y = 57$$

$$2x + 3y = 5$$

$$2x + 3(3) = 5$$

$$2x + 9 = 5$$

$$2x = 5 - 9$$

$$2x = -4$$

$$x = -\frac{4}{2}$$

$$x = -2$$

Comprobación de Resultados

$$5x - 2y = -16$$

$$5(-2) - 2(3) = -16$$

$$-10 - 6 = -16$$

$$-16 = -16$$

$$2x + 3y = 5$$

$$2(-2) + 3(3) = 5$$

$$-4 + 9 = 5$$

$$5 = 5$$