

$$C. \begin{cases} 3x + 2y = 3 \\ -x + 5y = 16 \end{cases}$$

$$X = 16 + 5Y$$

$$X = 3 - 2Y$$

$$\frac{16 + 5Y}{-1} = \frac{3 - 2Y}{3}$$

$$3(16 + 5Y) = -1(3 - 2Y)$$

$$48 + 15Y = -3 - 2Y$$

$$2Y + 15Y = -3 - 48$$

$$17Y = -51$$

$$Y = \frac{-51}{17}$$

$$Y = -3$$

$$3X + 2 \cdot 3 = 3$$

$$3X + 6 = 3$$

$$3X = 3 - 6$$

$$X = \frac{-3}{3}$$

$$X = -1$$

$$-X + 5 \cdot 3 = 16$$

$$-X = 16 - 15$$

$$-X = \frac{1}{-1}$$

$$X = -1$$

$$Y = 3 \quad X = -X(-1)$$

$$b. \begin{cases} 2x + 3y = -7 \\ 3x - 2y = -4 \end{cases}$$

$$X = \frac{-7 - 3y}{2}$$

$$\frac{-7 - 3y}{2} = \frac{-4 + 2y}{3}$$

$$X = \frac{-4 + 2y}{3}$$

$$3(-7 - 3y) = 2(-4 + 2y)$$

$$= -21 - 9y = -8 + 4y$$

$$-4y - 9y = -8 + 21$$

$$-13y = 13$$

$$y = 13 / -13 = -1$$

$$2x + 3 \cdot 1 = -7$$

$$3x - 2 \cdot 1 = -4$$

$$2x + 3 = -7$$

$$3x - 2 = -4$$

$$2x = -7 - 3$$

$$x = \frac{-6}{3}$$

$$x = \frac{-6}{3}$$

$$x = -2$$

$$x = -2$$

$$y = 2$$

$$x = 3$$

ACTIVIDADES DE APRENDIZAJE

1. Resuelve los siguientes sistemas de ecuaciones por el método de igualación.

a $\begin{cases} x + y = 3 \\ y = 1 \end{cases}$

b $\begin{cases} x - y = -1 \\ x = 3 \end{cases}$

$$\begin{aligned} x = 3 - y & \quad 3 - y = 1 + y \\ x = -1 + y & \quad 3 - 1 = y + y \\ 2 & = 2y \end{aligned}$$

$$\left[y = \frac{2}{2} = 1 \right]$$

a. $x = 3 - (1); x = 2 + 1; \boxed{x = 3}$