

$$3x - 2y = 4 \quad \text{ec(1)}$$

$$5x + 3y = 13 \quad \text{ec(2)}$$

$$\text{ec(1)} \quad 3x - 2y = 4$$

$$3x = 4 + 2y$$

$$x = \frac{4 + 2y}{3} \quad \text{ECUACION 1}$$

$$\text{ec(2)} \quad 5x + 3y = 13$$

$$5x = 13 - 3y$$

$$x = \frac{13 - 3y}{5} \quad \text{ECUACION 2}$$

$$\frac{4 + 2y}{3} = \frac{13 - 3y}{5}$$

$$5(4 + 2y) = 3(13 - 3y)$$

$$20 + 10y = 39 - 9y$$

$$10y = 39 - 9y - 20$$

$$10y + 9y = 39 - 20$$

$$19y = 19$$

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

$$\underline{y = 1} \quad // \quad \text{SUSTITUIR} \\ \text{EN ECUACION 1}$$

$$x = \frac{4 + 2(1)}{3}$$

$$x = \frac{4 + 2}{3} = \frac{6}{3}$$

$$\underline{x = 2}$$

comprobación:

$$3x - 2y = 4$$

$$3(2) - 2(1) = 4$$

$$6 - 2 = 4$$

$$\underline{4 = 4}$$

$$4) x + 3y = -1$$

$$3x + 5y = -9$$

DESPEJAR

$$4x = -1 - 3y$$

$$x = \frac{-1 - 3y}{4} \quad \text{ECUACION 1}$$

DESPEJAR

$$3x + 5y = -9$$

$$3x = -9 - 5y$$

$$x = \frac{-9 - 5y}{3} \quad \text{ECUACION 2}$$

$$\frac{-1 - 3y}{4} = \frac{-9 - 5y}{3}$$

$$3(-1 - 3y) = 4(-9 - 5y)$$

$$-3 - 9y = -36 - 20y$$

$$-9y + 20y = -36 + 3$$

$$11y = -33$$

$$y = \frac{-33}{11}$$

$$\underline{\underline{y = -3}} \quad \text{SUSTITUIR} \\ \text{ECUACION 1}$$

$$x = \frac{-1 - 3y}{4}$$

$$x = \frac{-1 - 3(-3)}{4}$$

$$x = \frac{-1 + 9}{4}$$

$$x = \frac{8}{4} =$$

$$\underline{\underline{x = 2}}$$

COMPROBACION

$$4(2) + 3(-3) = -1$$

$$8 - 9 = -1$$

$$\underline{\underline{-1 = -1}}$$