

ECuaciones con dos incógnitas

Resuelve los siguientes sistemas de ecuaciones por el método de suma y resta.

A $\begin{cases} 2x + 7y = 22 \\ 2x + 7(-19.25) = 22 \\ 2x + (-132.75) = 22 \\ 2x + 3y = 14 \end{cases}$

$$\begin{aligned} X &= -22 - (-19.25) = -2.75 \\ 2x + 7y &= 22 \\ -2x - 3y &= -4 \\ \hline 4y &= 11 \end{aligned}$$

$$\frac{-11}{4} = -2.75$$

$$\begin{aligned} y &= -2.75 \\ x &= -2.75 \end{aligned}$$

B $\begin{cases} 3x - 2y = 20 \\ 3(10) - 2y = 20 \\ 30 - 2y = 20 \end{cases}$

$$-2y = -30 + 20 = \frac{-10}{2} = -5$$

$$2x - 2y = 10$$

$$\begin{aligned} 3x - 2y &= 20 \\ -2x + 2y &= 10 \\ \hline x &= 10 \end{aligned}$$

$$\frac{10}{1} = 10$$

$$\begin{aligned} y &= -5 \\ x &= 10 \end{aligned}$$

C $\begin{cases} -x + 34y = 0 \\ 2x + 34y = 9 \end{cases}$

$$x = 0 - 34y$$

$$x = 0 - 125.8$$

$$x = -125.8$$

$$2(0 - 34y) + 34y = 9$$

$$-68y + 34y = 9$$

$$-34y = 9$$

$$0 - 9 = +34y$$

$$-9 = +34y$$

$$y = \frac{+34}{-9} = -3.7$$

$$\begin{aligned} y &= -3.7 \\ x &= -125.8 \end{aligned}$$