

Resolver el siguiente sistema de ecuaciones lineales
utilizando el Método de los determinantes (o Cramer)

$$\begin{cases} -9x - 10y = -10 \\ -6x - 7y = -10 \end{cases}$$

$$\Delta = \begin{vmatrix} -9 & -10 \\ -6 & -7 \end{vmatrix} = (-9) \cdot (-7) - (-6) \cdot (-10)$$

$$\Delta = 63 - 60 \Rightarrow \boxed{\Delta = 3}$$

$$\Delta_x = \begin{vmatrix} -10 & -10 \\ -10 & -7 \end{vmatrix} = (-10) \cdot (-7) - (-10) \cdot (-10)$$

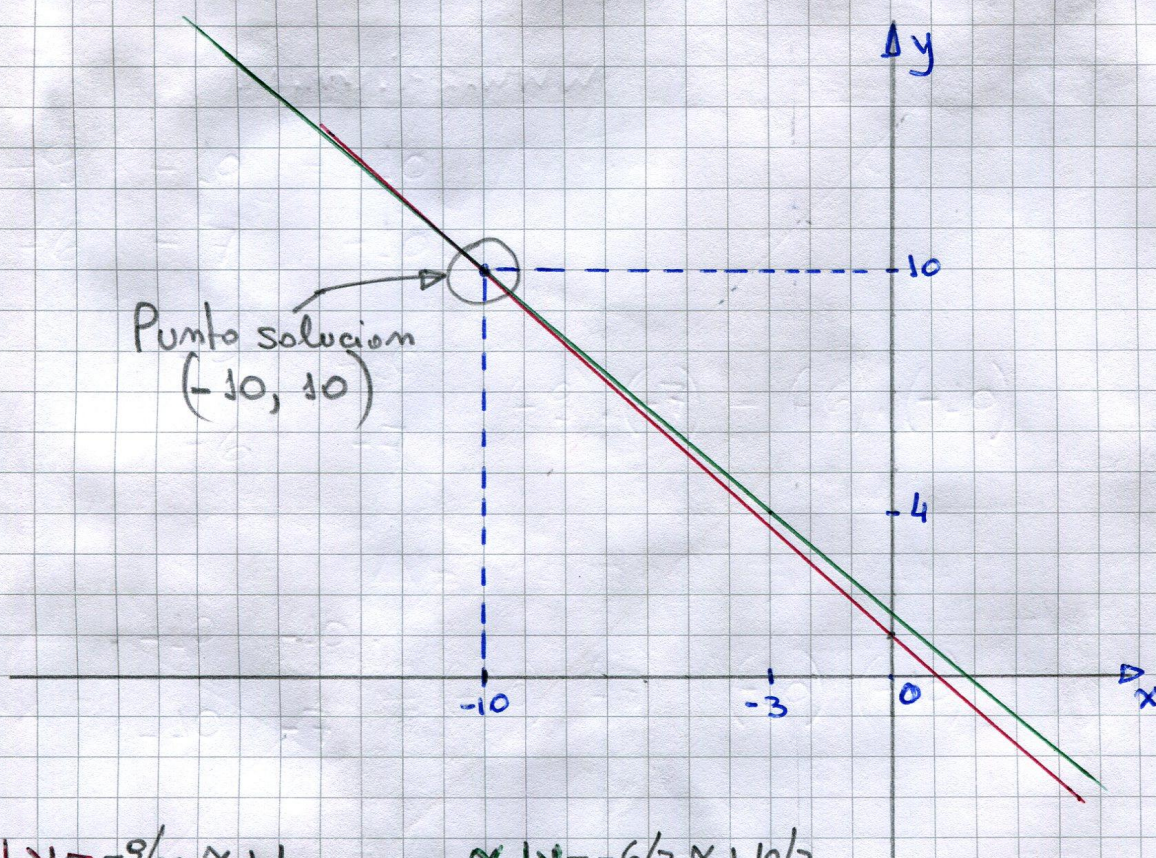
$$\Delta_x = 70 - 100 \Rightarrow \boxed{\Delta_x = -30}$$

$$\Delta_y = \begin{vmatrix} -9 & -10 \\ -6 & -10 \end{vmatrix} = (-9) \cdot (-10) - (-6) \cdot (-10)$$

$$\Delta_y = 90 - 60 \Rightarrow \boxed{\Delta_y = 30}$$

$$x = \frac{\Delta_x}{\Delta} = \frac{-30}{3} \Rightarrow \boxed{x = -10}$$

$$y = \frac{\Delta_y}{\Delta} = \frac{30}{3} \Rightarrow \boxed{y = 10}$$



x	$y = -9/10 x + 1$
-10	10
0	1

x	$y = -6/7 x + 10/7$
-10	10
-3	4

Resolver los siguientes sistemas de ecuaciones aplicando el Metodo de los determinantes (o Cramer)

$$1) \begin{cases} -7x + y = 2 \\ -7x - 8y = -9 \end{cases}$$

$$\text{Rta: } x = -\frac{1}{9} \quad y = \frac{11}{9}$$

$$2) \begin{cases} 5x - 4y = 6 \\ -5x + 8y = -1 \end{cases}$$

$$\text{Rta: } x = \frac{11}{5} \quad y = \frac{5}{4}$$

$$3) \begin{cases} -3x - 7y = 2 \\ 2x - 6y = 4 \end{cases}$$

$$\text{Rta: } x = \frac{1}{2} \quad y = -\frac{1}{2}$$

$$4) \begin{cases} -7x - y = -2 \\ 0x - 2y = 6 \end{cases}$$

$$\text{Rta: } x = \frac{5}{7} \quad y = -3$$

$$5) \begin{cases} -7x - 3y = 10 \\ x + 0y = -1 \end{cases}$$

$$\text{Rta: } x = -1 \quad y = -1$$

$$6) \begin{cases} 0x - y = 9 \\ 9x - 6y = 9 \end{cases}$$

$$\text{Rta: } x = -5 \quad y = -9$$

$$7) \begin{cases} 8x + 5y = -9 \\ -2x + 0y = 6 \end{cases}$$

$$\text{Rta: } x = -3 \quad y = 3$$