GISTEMAS DE EXUACIONES - MÉTODO SUSTITUCIÓN

1)
$$\begin{cases} 24 + 2y = 1 \\ -3x + 4y = -10 \end{cases}$$
 $-3 + 6y + y = -10$
 $2x = 1 - 2y$
 $3x = 1 - 2y$
 $3x = 1 - 2(-1)$
 $3x = 1 - 2(-1)$
 $3x = 1 - 2(-1)$

2)
$$\begin{cases} -\infty + 2y = 4 \\ 2x - 4y = 3 \end{cases}$$
 $x = 2y - 4 \\ x = \frac{3 - 4y}{2} \end{cases}$ $x = \frac{3 - 4y}{2}$ $x = \frac{11}{4} - 4 \end{cases}$ 6) $\begin{cases} x_0 - 4y = 5 \\ 3x_0 - 12y = 15 \end{cases}$ $x = \frac{3 - 4y}{2}$ $x = \frac{5}{4} \end{cases}$ $x = \frac{5}{4} + 4y = 5 \end{cases}$

$$-(-\frac{5}{4})+2(\frac{11}{8})=4 \qquad 4y-8=\frac{2}{3-4y}$$

$$\frac{5}{4}+\frac{11}{4}=4 \Rightarrow \frac{16}{4}=4 \qquad 8y=11 \Rightarrow y=\frac{11}{8}$$

3)
$$\begin{cases} x + 4y = 1 & 2(1 - 4y) + y = -5 \\ 2x + y = -5 & 2 - 8y + y = -5 \end{cases}$$

 $\begin{cases} x + 4y = 1 & 2(1 - 4y) + y = -5 \\ 2x + y = -5 & -3 + 4(1) = 1 \end{cases}$
 $\begin{cases} x + 4y = 1 & -3 + 4(1) = 1 \\ x = 1 - 4(1) & 0 = 1 \end{cases}$

x = -3

4)
$$\begin{cases} 3x + y = 4 & -6\left(\frac{4-y}{3}\right) - 2y = 1 \\ -6x - 2y = 1 & -24 + 6y - 2y = 1 \\ & & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & & & \\ & & \\ & & \\ & & & \\ & &$$

6)
$$\begin{cases} 3x - 2y = -4 \\ 2x + y = 2 \end{cases}$$
 $3\left(\frac{2-y}{2}\right) - 2y = -4$
 $x = \frac{2-y}{2}$ $\frac{6-3y}{2} - 2y = -4$
 $x = \frac{2-7}{2}$ $6-7y = -8$
 $-7y = -14$
 $y = 2$

$$\begin{array}{ll} (3) & (3 - 4y = 5) \\ (3\pi - 12y = 15) \\ ($$

*)
$$\begin{cases} 2x + 3y = 1 \\ 3x + 2y = 4 \end{cases}$$
 $3\left(\frac{1-3y}{2}\right) + 2y = 4$
 $x = \frac{1-3y}{2}$ $3 = 4y + 4y = 8$
 $x = \frac{1-3(-1)}{2}$
 $x = 2$

8)
$$\begin{cases} 4x - 3y = 5 & -8\left(\frac{5+3y}{4}\right) + 6y = 10 \\ -8x + 6y = 10 & -40 - 24y + 24y = 40 \end{cases}$$

$$x = \frac{5+3y}{4}$$
x No have solver 5n

9)
$$\begin{cases} 4x - y = -q \\ 2x + 2y = -2 \end{cases}$$
 $4\left(\frac{-2-2y}{2}\right) - y = -q$
 $x = \frac{-2-2y}{2}$ $-q - qy = q$
 $y = -5y = -5$
 $y = -\frac{2-2(1)}{2}$

7-=-2