

**EJERCICIOS SOBRE :
SISTEMAS DE ECUACIONES**

Resuelve los siguientes sistemas:

$$1) \left. \begin{aligned} \frac{x-y}{3} - \frac{1}{2}(y-x) &= 5 \\ y - \frac{x-y}{7} &= 3 \end{aligned} \right\}$$

$$2) \left. \begin{aligned} \frac{1}{2}x + \frac{5}{4}y &= 2 \\ \frac{3}{2} - \frac{x-10y}{6} &= 0 \end{aligned} \right\}$$

$$3) \left. \begin{aligned} 2 + \frac{3x+4y}{2} &= x \\ \frac{x}{y} &= \frac{1}{y} - \frac{6}{4} \end{aligned} \right\}$$

$$4) \left. \begin{aligned} 3 - \frac{1}{2}(a-b) &= 4 \\ a - \left(\frac{a}{3} - b \right) + 3 &= 0 \end{aligned} \right\}$$

$$5) \left. \begin{aligned} x &= \frac{3}{2} - \frac{1}{2}(1-y) \\ \frac{3}{2} - \frac{2x+y}{3} &= \frac{5x}{6} \end{aligned} \right\}$$

$$6) \left. \begin{aligned} \frac{3}{x} + \frac{1}{y} &= \frac{3}{2} \\ \frac{4}{x} + \frac{4}{y} &= \frac{10}{3} \end{aligned} \right\}$$

$$7) \left. \begin{aligned} \frac{x+3y}{4} - \frac{4(x+y)}{5} + x &= 2 \\ \frac{7x+3}{8} - \frac{1}{8}(y+11) &= \frac{5-x}{4} + 5 \end{aligned} \right\}$$

$$8) \left. \begin{aligned} \frac{3x-2y}{3} &= x \\ y &= \frac{2x-y}{5} \end{aligned} \right\}$$

$$9) \left. \begin{aligned} x &= 2y-1 \\ y &= \frac{1+3x}{6} \end{aligned} \right\}$$

$$10) \left. \begin{aligned} \frac{2(x+2)-3y}{5} - \frac{4}{3}(x-3) &= 6 \\ \frac{x+3(y-1)}{4} + 3x &= 2 \end{aligned} \right\}$$

SOLUCIONES

$$1) \quad x=6 \quad y=\frac{27}{8}$$

$$2) \quad x=5 \quad y=\frac{-2}{5}$$

$$3) \quad x=4 \quad y=-2$$

$$4) \quad a=-3 \quad b=-1$$

$$5) \quad x=1 \quad y=0$$

$$6) \quad x=3 \quad y=2$$

7) **No tiene solución**

$$8) \quad x=0 \quad y=0$$

9) **No tiene solución**

$$10) \quad x=\frac{25}{51} \quad y=\frac{232}{3}$$