
Matemáticas 3º ESO

Boletín 9 | *Sistemas de ecuaciones de 1º grado con 2 incógnitas (II)*

Resuelve os seguintes sistemas de ecuacións polo método que prefiras:

$$1. \begin{cases} -2x + \frac{y-2}{5} = 21 \\ 4x - \frac{y+4}{6} = 29 \end{cases}$$

$$2. \begin{cases} \frac{x-y}{3} - \frac{2y-3x}{6} = 8 \\ \frac{x}{6} + \frac{y}{3} = 18 \end{cases}$$

$$3. \begin{cases} \frac{2x-3}{4} - \frac{y-8}{5} = \frac{y+3}{4} \\ \frac{x-7}{3} + \frac{4y+1}{11} = 3 \end{cases}$$

$$4. \begin{cases} \frac{3(2x-5y)}{5x-2y} = -24 \\ \frac{4(5x+2y)}{3 \cdot \left(\frac{1}{3} + 5y\right)} = 1 \end{cases}$$

$$5. \begin{cases} \frac{2x-3y}{5} + \frac{4x+2y}{3} - \frac{x}{6} = \frac{193}{150} \\ \frac{2(x-y)}{3} - \frac{y}{4} + \frac{3x-2y}{6} + \frac{x}{12} = \frac{3}{8} \end{cases}$$

$$6. \begin{cases} \frac{\frac{2}{3}}{\frac{x}{4} - \frac{2y}{5} + \frac{175}{12}} = \frac{\frac{1}{5}}{\frac{x}{2} + \frac{1,5y}{3}} \\ \frac{\frac{3}{5}}{\frac{2x}{3} - \frac{y}{4}} = \frac{2}{\frac{x}{5} + \frac{y}{6} + \frac{16}{15}} \end{cases}$$

$$7. \begin{cases} \frac{1}{y - \frac{y}{1 + \frac{1}{x}}} = \frac{3}{2} \\ \frac{1}{x - \frac{x}{1 + \frac{1}{y}}} = 4 \end{cases}$$

Solucións:

1) $x=178/23, y=4241/23$

2) $x=264/7, y=246/7$

3) $x=7, y=8$

4) $x=1/6, y=1/3$

5) $x=0,8, y=0,5$

6) $x=3, y=5$

7) $x=1/2, y=1$