EJERCICIOS RESUELTOS ECUACIONES FRACCIONARIAS

Número de ejemplo	DESPEJE

1

$$\frac{x-11}{5} = 3$$

$$\frac{x-11}{5} = \frac{3}{1}$$

$$\frac{x-11}{5} = \frac{15}{5}$$

$$\frac{x-11}{\cancel{5}} = \frac{15}{\cancel{5}}$$

$$x - 11 = 15$$

$$x = 15 + 11$$

$$x = 26$$

2

$$\frac{x}{4} + \frac{-2}{3} - x = \frac{2+x}{4}$$

$$\frac{x}{4} + \frac{-2}{3} - \frac{x}{1} = \frac{2+x}{4}$$

$$\frac{3x + -8 - 12x}{12} = \frac{3(2+x)}{12}$$

$$\frac{3x - 8 - 12x}{12} = \frac{6 + 3x}{12}$$

$$\frac{3x - 8 - 12x}{\cancel{12}} = \frac{6 + 3x}{\cancel{12}}$$

$$-8 - 9x = 6 + 3x$$

$$-8 - 6 = 3x + 9x$$

$$-14 = 12x$$

$$\frac{-14}{12} = x$$

$$\frac{-7}{6} = x$$

3

$$\frac{-m+4}{7} = \frac{2m-5}{14}$$

$$\frac{2(-m+4)}{14} = \frac{2m-5}{14}$$

$$\frac{-2m+8}{14} = \frac{2m-5}{14}$$

$$\frac{-2m+8}{\cancel{14}} = \frac{2m-5}{\cancel{14}}$$

$$-2m+8 = 2m-5$$

$$-2m-2m = -5-8$$

$$-4m = -13$$

$$m = \frac{-13}{-4}$$

$$m = \frac{13}{4}$$

4

$$3 - \frac{y-9}{3} + y = \frac{5}{2}(y-1)$$

$$\frac{3}{1} - \frac{y-9}{3} + \frac{y}{1} = \frac{5(y-1)}{2}$$

$$\frac{18 - 2(y-9) + 6y}{6} = \frac{3 \cdot 5(y-1)}{6}$$

$$\frac{18 - 2y + 18 + 6y}{6} = \frac{15y - 15}{6}$$

$$\frac{4y + 36}{6} = \frac{15y - 15}{6}$$

$$\frac{4y + 36}{\cancel{6}} = \frac{15y - 15}{\cancel{6}}$$

$$4y + 36 = 15y - 15$$

$$4y - 15y = -15 - 36$$

$$-11y = -51$$

$$y = \frac{-51}{-11}$$

$$y = \frac{51}{11}$$

5

$$\frac{2(x-3)+5}{8} = \frac{3x+9}{4}$$

$$\frac{2(x-3)+5}{8} = \frac{2(3x+9)}{8}$$

$$\frac{2x-6+5}{8} = \frac{6x+18}{8}$$

$$\frac{2x-1}{8} = \frac{6x+18}{8}$$

$$2x-6x = 18+1$$

$$-4x = 19$$

$$x = \frac{19}{-4}$$

$$x = \frac{-19}{4}$$