Ecuaciones sencillas de primer grado:

1

$$4 \cdot (x-2) + 1 + 3x = 5 \cdot (x+1)$$
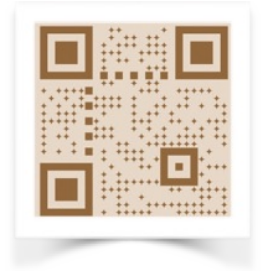
$$4x - 8 + 1 + 3x = 5x + 5$$

$$4x + 3x - 5x = 5 + 8 - 1$$

$$2x = 12$$

$$x = \frac{12}{2}$$

$$\boxed{x = 6}$$

2

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

$$-\frac{x}{1} - \frac{4}{1} + \frac{x}{3} = -\frac{8x}{3}$$

$$m.c.m = 3$$
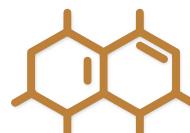
$$\frac{-3x - 12 + x}{3} = \frac{-8x}{3}$$

$$-3x - 12 + x = -8x$$

$$-3x + x + 8x = +12$$

$$+6x = 12$$

$$x = \frac{12}{6}$$

$$x = 2$$