

1.- Resuelve:

a) $3x = 27$

b) $3x - 1 = 20$

c) $\frac{3x-1}{5} = 4$

d) $\sqrt{\frac{3x-1}{5}} = 2$

2.- Resuelve:

a) $2x - 4 = 6$; $x = 5$

b) $4x - 12 = 0$; $x = 3$

c) $\frac{x+1}{3} = 2$; $x = 5$

d) $x^2 + 1 = 26$; $x = 5$

3.- Resuelve:

a) $\frac{x}{3} = \frac{x}{4} + 1$

b) $\frac{x}{5} = 3$

c) $5 - x = 0$

d) $x - \frac{x}{3} + \frac{x}{5} = 13$

4.- Resuelve:

a) $x^2 = 81$; $x = \pm 9$

b) $x^2 = 7$; $x = \pm\sqrt{7}$

c) $5x^2 = 20$; $x = \pm 2$

d) $4x^2 = 1$; $x = \pm\frac{1}{2}$

e) $x^2 - 9 = 0$; $x = \pm 3$

f) $\frac{5x^2}{8} = \frac{2}{5}$; $x = \pm\frac{4}{5}$

g) $\frac{x}{3} + \frac{x^2}{4} = \frac{5x}{6}$; $x = 0$, $x = 2$

5.- Resuelve:

a) $x^2 - 6x + 8 = 0$; $x = 4$, $x = 2$

b) $x^2 + x - 12 = 0$; $x = 3$, $x = -4$

c) $2x^2 - 7x + 6 = 0$; $x = 2$, $x = \frac{3}{2}$

d) $x^2 + 6x + 9 = 0$; $x = -3$, $x = -3$

6.- Reduce y resuelve:

$$a) \quad x^2 - 3x - 5 = 2x + 9; \quad x = \frac{5 + \sqrt{89}}{2}, \quad x = \frac{5 - \sqrt{89}}{2}$$

$$b) \quad 6x^2 - 5(x-1) = x(x+1) + 4; \quad x = 1, \quad x = \frac{1}{5}$$

$$c) \quad 2x^2 + \frac{x}{4} = x^2 + \frac{4x}{5} + \frac{1}{5}; \quad x = \frac{4}{5}, \quad x = -\frac{1}{4}$$

$$d) \quad x(x+1) - \frac{1}{2} = \frac{x-4}{6}; \quad x = \frac{1}{2}, \quad x = \frac{1}{3}$$

$$e) \quad \frac{2x+2}{3} + \frac{x^2-x}{5} = \frac{3x+7}{10}; \quad x = -1, \quad x = \frac{1}{6}$$