

Equação do 1º Grau – Resolução de Exercícios

a) $2x + 6 = 14$

$$2x = 14 - 6$$

$$2x = 8$$

$$x = \frac{8}{2}$$

$$x = 4$$

c) $3y + 6 = 5y + 7$

$$3y - 5y = 7 - 6$$

$$(x-1) - 2y = 1$$

$$2y = -1$$

$$y = -\frac{1}{2}$$

b) $x + 5x - 3 = 15$

$$x + 5x = 15 + 3$$

$$6x = 18$$

$$x = \frac{18}{6}$$

$$x = 3 //$$

d) $7x + 3x + 4 - 2x = 28 - 10 + 8 - 3x$

$$7x + 3x - 2x + 3x = 28 - 10 + 8 - 4$$

$$11x = 22$$

$$x = \frac{22}{11}$$

$$x = 2 //$$

e) $\frac{x}{3} + 13 = 15$

$$\frac{x}{3} = 15 - 13$$

$$\frac{x}{3} = 2$$

$$x = 2 \cdot 3$$

$$x = 6$$

f) $34 + 5x = 55 - 2x$

$$5x + 2x = 55 - 34$$

$$7x = 21$$

$$x = \frac{21}{7}$$

$$x = 3$$

g) $4(a - 3) = 15$

$$4a - 12 = 15$$

$$4a = 15 + 12$$

$$4a = 27$$

$$a = \frac{27}{4}$$

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

$$\frac{10x}{6} - \frac{9x}{6} = \frac{30}{6}$$

$$10x - 9x = 30$$

$$x = 30$$