

## Equação do primeiro grau

### Exercícios

1. Resolva as equações:

a.  $-5x = 10$

b.  $6x = 1$

c.  $-6y = -9$

d.  $5x = 0$

e.  $-8x = 9$

f.  $3x - 4 = 11$

g.  $y + 5 = -4y$

h.  $4x + 5 = 7$

i.  $2x - 7 = 8$

j.  $4y - 1 = 10$

2. Resolva as equações, sendo  $U = \mathbb{Q}$ :

a.  $y + 9 + 5y = -3 + 2y + 7$

b.  $x + 1 = 7x - 2$

c.  $3x - 4 = 5x - 10$

d.  $15x = 8 + 20$

e.  $7(x - 1) = 2(3x + 1)$

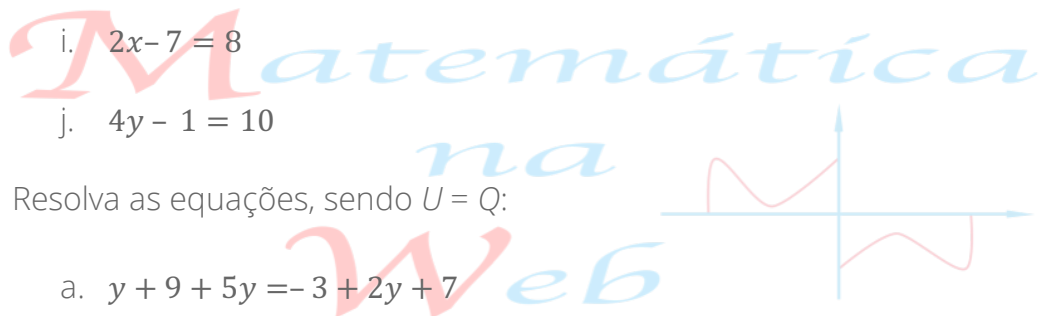
f.  $1 + 4(x - 5) = 0$

g.  $4(x - 2) + 3(2x - 1) = 6(2x - 3)$

h.  $x - (x + 1) = 12 - (3x - 2)$

i.  $\frac{6x}{5} - \frac{7}{2} = \frac{4x}{10} + \frac{1}{2}$

j.  $\frac{3m}{2} - \frac{1}{3} = m$



k.  $x - \frac{2}{7} = 3 + \frac{x}{2}$

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

m.  $\frac{x+1}{5} = \frac{x-2}{3}$

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

o.  $\frac{3y}{2} - \frac{y-5}{3} = 1 + \frac{2y-4}{4}$

p.  $\frac{5-x}{9} - \frac{x-1}{6} - \frac{2x+1}{12} = 0$

q.  $5x + \frac{1}{3}\left(\frac{x}{2} - 1\right) = x - \frac{3}{4}$

r.  $\frac{2}{5}\left(\frac{a}{3} + \frac{2}{3}\right) = \frac{a}{3} + \frac{1}{10}$

s.  $\frac{5}{8}(4x - 0,3) - 2\left(0,2x - \frac{1}{8}\right) = \frac{173x}{80}$

t.  $\frac{y+2}{5} - \frac{1}{4}(0,8 + y) = 0,5$

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## Respostas

1.

a.  $V = \{-2\}$

b.  $V = \emptyset$

c.  $V = \left\{\frac{3}{2}\right\}$

d.  $V = \{0\}$

e.  $V = \left\{-\frac{9}{8}\right\}$

f.  $V = \{5\}$

g.  $V = \emptyset$

h.  $V = \left\{\frac{1}{2}\right\}$

i.  $V = \left\{\frac{15}{2}\right\}$

j.  $V = \emptyset$

2.

a.  $-\frac{5}{4}$

b.  $\frac{1}{2}$

c. 3

d.  $-\frac{8}{5}$

e. 9

f.  $\frac{19}{4}$

g.  $\frac{7}{2}$

h. 5

i. 5

j.  $\frac{2}{3}$



k.  $\frac{46}{7}$

l. 0

m.  $\frac{13}{2}$

n. 18

o.  $-\frac{5}{2}$

p.  $\frac{23}{16}$

q.  $-\frac{1}{10}$

r.  $\frac{5}{4}$

s. 1

t. -6

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