Tópicos de Matemática Elementar 1

Parte 1 - Conjunto dos Números Racionais

Equações e Inequações de 1º ordem

traccies

Exercício 1

$$4)24x-3=2x$$
 (2)

(=)
$$24x - 2x = 3$$
 (=)

$$(3) \chi = \frac{3}{22} / 1$$

3.) x +1=2-1 (=)

$$(=) x - x + 1 = -1 (=)$$

$$(2.)$$
 $-2+3+2x=4x+15$

$$(3) - \chi + 3 + 2\chi - 4\chi = 15$$
 (5)

(=)
$$-\pi = \frac{12}{3}$$
 (=)
(=) $\pi = -\frac{12}{3}$ (=)

Exercício 2

$$(3) \times \left\{ \frac{23}{2}, \quad (5 =] - \infty, \frac{23}{2} \right]$$

$$(z) - 2x > -2 (z)$$

$$(=) \frac{-2x}{2} \geqslant -\frac{2}{2} (=)$$

(5)
$$3 \cdot \frac{1}{3} \cdot 76 - 26 \leftarrow 1 - 1$$
 (5)

$$(=)$$
 \mathcal{H} \Rightarrow $\frac{6}{2}$ $(:2)$

$$(=) \times > 3_{1}$$
 $C5 =]3, +\infty[$

$$CA \quad 3 \times \frac{1}{3} = \frac{3}{3} = 1$$

$$8 \times \frac{1}{8} = 1$$

Exercício 3

1.)
$$\frac{12}{7} - \frac{3}{7} = \frac{9}{7}$$

$$2.)\frac{10}{3} - \frac{8}{3} + \frac{2}{3} = \frac{4}{3}$$

$$(3_i) - \frac{2}{9_{(4)}} + \frac{3}{4_{(9)}} = -\frac{9}{36} + \frac{27}{36} = \frac{19}{36} /$$

$$(4.)\frac{1}{2} \times \frac{25}{3} = \frac{1 \times 25}{2 \times 3} = \frac{25}{6}$$

Exercício 4

$$\frac{1}{6} + \chi = \frac{11}{6}$$
 (=)

(=)
$$\chi = \frac{11}{6} - \frac{7}{6}$$
 (=)

(a)
$$\chi = \frac{4}{6}$$
 (b)

$$(2.)\frac{3}{4} + x = 1$$

$$(=) \chi = \frac{4}{4} - \frac{3}{4} = (=)$$

$$3.) \times -\frac{2}{3} = \frac{3}{4}$$

(a)
$$\chi = \frac{3}{4} + \frac{2}{9}$$
 (b)

(=)
$$x = \frac{27}{36} + \frac{8}{36}$$
 (=)