

Exercício 1 a 10
Cálculo 1

Q) c

2-a

3- $s(n) = \left(3 + \frac{12}{n}\right)$

a)

$$s(7) = \left(3 + \frac{12}{7}\right) = 7 \text{ minutos}$$

Incorreto

b) $s(5) = \left(3 + \frac{12}{5}\right) = 3 + 2,4 = 5,4 \text{ minutos}$

Segundos 0,4

Incorreto

$$\begin{array}{rcl} 1 \text{ minuto} & - 60 \text{ segundos} & : 1 \cdot x = 60 \cdot 0,4 \\ 0,4 \text{ minutos} & - x & \end{array}$$

c) $s(3) = \left(3 + \frac{12}{3}\right) = 3 + 4 = 7 \text{ minutos (minutos)}$

24 segundos

d) $s(10) = 3 + \frac{12}{10} = 3 + 1,2 = 4,2 \text{ minutos}$

~~$s_m(3,5) = \left(3 + \frac{12}{5}\right) \Rightarrow 3,5 - 3 = \frac{12}{5}$~~

$$0,5 = \frac{12}{m} \Rightarrow m = 0,5 \cdot 12$$

6rta

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$$41) s(x) = \frac{1}{x-1}$$

3 vermaende + 30 = 33
regende 0,5 = 24
deltare

$$\frac{1}{x-1} = 1 \Rightarrow$$

$$\frac{1}{\frac{1}{x-1} - 1} = 1$$

$$\frac{1}{1-x+1} = 1$$

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

$$\frac{x-1}{2-x} = 1 \quad x-1 = 2-x$$

$$x+x = 2+1$$

$$2x = 3$$

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

$$x = 1,5$$

$$\textcircled{C} 1,5$$

5)

$$e_0 = 2x + p - 10$$

$$x = \frac{(-10-p)}{2}$$

I

Simplificando

$$\frac{(p^2-s)}{8} = \frac{(10-p)}{2}$$

~~$p^2 - s = 40$~~

~~$\frac{p^2-5}{8} = 40$~~

$$p^2 + 4p - 45 = 0$$

~~$p^2 + 4p$~~

$$e_d = p^2 - 8x - 5$$

$$8x = p^2 - 5$$

$$x = \frac{(p^2-s)}{8}$$

□

$$x = \frac{-4 + \sqrt{4^2 - 4 \cdot 1 \cdot (-45)}}{2 \cdot 1} = 5$$

$$x = \frac{-4 - \sqrt{4^2 - 4 \cdot 1 \cdot (-45)}}{2 \cdot 1} = -9$$

2. I

$$(5, -9)$$

d

Substituindo

$$x = \frac{(-10-5)}{2} = -7,5$$

$$\begin{array}{l}
 \text{6)} \quad 5300 - 300 = 4400 \\
 100x - x \\
 20\% \quad 970 \quad 4400 \times 0,20 = 880 + 30 \\
 20x = 97000 \quad 970 \text{ de imposto} \\
 x = \frac{97000}{20} \quad 5300 \quad \textcircled{d} \\
 x = 4850
 \end{array}$$

$$\begin{array}{l}
 \text{7)} \quad s(x) = \sqrt{x^2 + 1} \\
 x^2 + 1 \geq 0 \quad x^2 \geq -1 \quad \textcircled{b}
 \end{array}$$