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Questão 1:

$$\begin{cases} 3x - 2y = -14 \\ 2x + 3y = 8 \end{cases}$$

$$x = \frac{-14 + 2y}{3} \quad \frac{-28 - 13y}{3} = 8$$

$$2x + 3y = 8 \quad x = \frac{-14 + 2y}{3}$$

$$y = 4 \quad x = \frac{-14 + 2y}{3}$$

$$x = -2$$

$$y = 4$$

b-

$$\begin{cases} 2x + y + z = 3 \\ -2x + 2y - z = 0 \\ 3x + y + z = 1 \end{cases}$$

$$\begin{cases} x = -2 \\ y = 1 \\ z = 6 \end{cases}$$

b-

$$\begin{cases} 2x + y + z = 3 \\ -2x + 2y - z = 0 \\ 3x + y + z = 1 \end{cases}$$

$$\Delta = \begin{vmatrix} 2 & 1 & 1 \\ -2 & 2 & -1 \\ 3 & 1 & 1 \end{vmatrix} = 3 \quad \Delta_1 = \begin{vmatrix} 3 & 1 & 1 \\ 0 & 2 & -1 \\ 1 & 1 & 1 \end{vmatrix} = 6$$

$$A_2 = \begin{vmatrix} 2 & 3 & 1 \\ -2 & 0 & -1 \\ 3 & 1 & 1 \end{vmatrix} = -3 \quad A_3 = \begin{vmatrix} 2 & 1 & 3 \\ -2 & 2 & 0 \\ 3 & 1 & 1 \end{vmatrix} = -18$$

$$x_1 = -2$$

$$x_2 = 1$$

$$x_3 = 6$$

$$c - a - 1 - 2(x-1) < 2$$

$$1 - 2x + 2 < 2$$

$$-2x < 2 - 2 - 1$$

$$-2x < 2 - 3$$

$$-2x < -1$$

$$x > 1/2$$

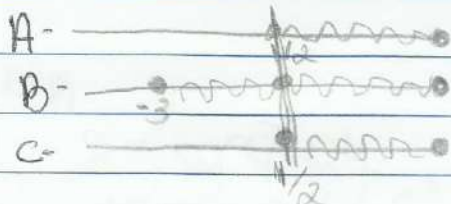
$$b - 2 - 3x \geq x + 14$$

$$-3x - x \geq 14 - 2$$

$$-4x \geq 12$$

$$x \leq -\frac{12}{4}$$

$$x \leq -3$$



Questão 2°

y = Lógica

x = Estágio

$$x = 3y - 5$$

$$2y + (3y - 5) = 10$$

$$2y + 3y - 5 = 10$$

$$5y = 10 + 5$$

$$y = \frac{15}{5}$$

$$y = 3 \text{ Cada lógica}$$

Questão 3

$$\begin{cases} x + 2y + 3z = 6,5 \\ 3x + 3y + 3z = 10 \\ 2x + 5y + 2z = 3,5 \end{cases}$$

$$\begin{cases} x + y + z = 3,5 \\ x = 3,5 - y - z \end{cases}$$

$$x = 3,5 - y - z$$

$$3,5 - y - z + 2y + 3z = 6,5$$

$$3,5 - y - z + 2y + 3z = 6,5$$

$$3,5 + y + 2z = 6,5$$

$$y = 6,5 - 3,5 - 2z$$

$$y = 3 - 2z$$

Continuar outro folho



$$\bullet 2(3,5 - y - z) + 5(3 - 2z) + 2z = 13$$

$$7 - 2y - 2z + 15 - 10z + 2z = 13$$

$$22 - 2y - 10z = 13$$

$$-2y - 10z = 13 - 22 \div (1)$$

$$2y + 10z = -9 \div (2)$$

$$y + 5z = 4,5$$

$$\bullet y + 5z = 4,5$$

$$3 - 2z + 5z = 4,5$$

$$3 + 3z = 4,5$$

$$3z = 4,5 - 3$$

$$3z = 1,5$$

$$z = \frac{1,5}{3} = 0,5$$

$$y = 3 - 2z$$

$$y = 3 - 2(0,5)$$

$$y = 3 - 1$$

$$y = 2$$

$$-x = 3,5 - 2 - 0,5$$

$$x = 3,5 - 2,5$$

$$x = 1$$

$$x = 1; y = 2; z = 0,5$$

$$\text{Total} : 7x = 7 \cdot 1 = 7$$

$$7y = 7 \cdot 2 = 14 = 24,5 \text{ reais}$$

$$7z = 7 \cdot 0,5 = 3,5$$

~~10~~

Questão 4ª

$$8^{6x-10} = \frac{1}{2^{3x}}$$

$$8^{6x-10} = \frac{1}{2^{3x}}, x \in \mathbb{R}$$

$$2^{18x-30} = \frac{1}{2^{3x}}$$

$$2^{18x-30} = 2^{-3x} \rightarrow 18x-30 = -30$$

$$18x-30 = -30$$

$$21x = 30$$

$$x = \frac{10}{7}$$

4B

$$\log 0,04 \quad \log 25 = x$$

$$\log_5 -2(5^3) = x$$

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

$$\frac{1}{2} x = -1 \frac{1}{2} \quad | x = -1,5$$

$$| x = 1,5$$