EXERCÍCIOG. 2: ENCONTRE OS VALORES de X, Y EZ UTILIZADO O METODO DE ESCALONAMENTO DE MATMZES.

$$(2)$$
 (2) (3) (4)

$$-2 = 2$$

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

$$3 = 3$$

$$4 + 2 = 3$$

$$2 = -1$$

$$3 = 3$$

$$4 + 2 = 5$$

$$2 + 2 = 5$$

$$2 + 2 = 5$$

$$2 + 2 = 5$$

$$2 + 2 = 5$$

$$2 + 2 = 5$$

$$2 + 2 + 1 = 5$$

$$2 + 3 = 5$$

$$2 + 3 = 5$$

$$2 + 3 = 5$$

$$2 + 3 = 5$$

$$2 + 3 = 5$$

$$2 + 3 = 5$$

$$2 + 3 = 5$$

b)
$$\begin{cases} x + y + z = 1 \\ 2x + y - 3z = 4 \\ 3x + 2y - 2z = 5 \end{cases}$$

$$\begin{vmatrix}
1 & 1 & 3 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | & 1 & | &$$

c)
$$2x+y+z=3$$

 $-x+2y-z=0$
 $x-3y+z=-1$

$$\begin{vmatrix} 2 & 1 & 1 & 3 \\ 1 & 2 & -1 & 0 \\ 2 & -3 & 1 & -1 \end{vmatrix} \begin{vmatrix} 1 & 2 & 1 & 1 \\ 2 & 2 & 1 & 1 \\ 2 & 3 & 1 & -1 \end{vmatrix} \begin{vmatrix} 1 & 2 & 1 & 1 \\ 2 & 2 & 1 & 1 \\ 2 & 2 & 1 & 1 \end{vmatrix}$$

$$\begin{vmatrix}
2 & 1 & 1 & 3 \\
0 & 5/2 & -1/2 & 3/2 \\
0 & -1/2 & 1/2 & -5/2 & 13 = 13 + 1 & 12
\end{vmatrix}$$

$$-\frac{1}{2} + \frac{7}{5} \left(\frac{8}{2}\right) = 0$$

$$\frac{1}{2} + \frac{7}{5} \left(-\frac{1}{2}\right) = \frac{1}{2} - \frac{7}{10} = \frac{5-7}{10} = -\frac{2}{5} = -\frac{1}{5}$$

$$-\frac{5}{2} + \frac{7}{5} \left(\frac{3}{2}\right) = -\frac{5}{2} + \frac{21}{10} = -\frac{25+21}{10} = -\frac{4}{10} = -\frac{7}{5}$$

$$\frac{-1}{8}z = -\frac{2}{8}$$

$$\frac{5}{2}y - \frac{1}{2}z = \frac{3}{2}$$

$$2x + y + z = 3$$

$$2x + 3 = 3$$

$$2x + 3 = 3$$

$$2x + 3 = 3$$

$$2x = 3 - 3$$

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

$$y = 1$$

$$x = 0$$

O SISTEMA E SPD, PORTANTO, TEM APENAS um solus

$$x = 0$$

$$y = 1$$

$$z = 2$$

D)
$$2x+y-z=5$$

 $-x+zy+z=2$
 $x+y+zz=1$

$$\frac{1}{2} - \frac{1}{2} = \frac{5}{2} \times \left\{ \begin{array}{c} \frac{1}{2} \cdot \frac{2}{5} = \frac{1}{2} \\ \frac{1}{2} \cdot \frac{5}{5} \end{array} \right\} \times \left\{ \begin{array}{c} \frac{1}{2} \cdot \frac{2}{5} = \frac{1}{2} \\ \frac{1}{2} \cdot \frac{1}{2} \end{array} \right\}$$

$$\begin{vmatrix}
-1 + \frac{1}{2}(2) = -1 + 1 = 0 \\
2 + \frac{1}{2}(1) = 2 + \frac{1}{2} = \frac{5}{2}
\end{vmatrix}
\begin{vmatrix}
1 - \frac{1}{2}(2) = 1 - 1 = 0 \\
2 + \frac{1}{2}(1) = 2 + \frac{1}{2} = \frac{5}{2}
\end{vmatrix}
\begin{vmatrix}
1 - \frac{1}{2}(2) = 1 - 1 = 0 \\
4 - \frac{1}{2}(1) = 1 - \frac{1}{2} = \frac{1}{2}
\end{vmatrix}
\begin{vmatrix}
2 - \frac{1}{2}(-1) = 2 + \frac{1}{2} = \frac{5}{2} \\
2 + \frac{1}{2}(5) = 2 + \frac{5}{2} = 2
\end{vmatrix}
\begin{vmatrix}
1 - \frac{1}{2}(5) = \frac{1}{2} - \frac{5}{2} = -\frac{3}{2}
\end{vmatrix}$$

$$\int \frac{1}{2} - \frac{1}{8} \left(\frac{8}{2} \right) = \frac{1}{2} - \frac{1}{2} = 0$$

E)
$$\chi + 2\gamma + 32 = 3$$

 $2\chi + 4\gamma + 62 = 6$
 $\chi - \gamma + 2 = 4$

$$\begin{vmatrix} 1 & 2 & 3 & | & 3 \\ 2 & 4 & 6 & | & 6 \\ 1 & -1 & 1 & | & 4 \\ 2 & 3 & | & 3 \\ 0 & 0 & 0 & | & 6 \\ 0 & -3 & -2 & | & 1 \end{vmatrix}$$

$$\begin{vmatrix} 3 & 2 & 3 & | & 3 \\ 0 & 0 & 0 & | & 6 \\ 0 & -3 & -2 & | & 1 \end{vmatrix}$$

y = z 2 = -1