

Tarefa Básica

Sistema linear homogêneo

$$\begin{cases} 3x + 4y - z = 0 \\ 2x - y + 3z = 0 \\ x + y = 0 \end{cases} \quad D = \begin{array}{c|cc|cc} \cancel{3} & \cancel{4} & \cancel{-1} & \cancel{3} & \cancel{4} & \cancel{1+9+0=10} \\ \cancel{2} & \cancel{-1} & \cancel{3} & \cancel{2} & \cancel{-1} & \cancel{D=10-10} \\ \cancel{1} & \cancel{1} & \cancel{0} & \cancel{1} & \cancel{1} & \cancel{D=0} \end{array}$$

$0+12-2=10$

$$Dx = \begin{array}{c|cc|cc} 0 & 4 & -1 & 0 & 4 \\ 0 & -1 & 3 & 0 & -1 \\ 0 & 1 & 0 & 0 & 1 \end{array} \quad Dx=0$$

$$Dy = \begin{array}{c|cc|cc} 3 & 0 & -1 & 3 & 0 \\ 2 & 0 & 3 & 2 & 0 \\ 1 & 0 & 0 & 1 & 0 \end{array} \quad Dy=0$$

$$Dz = \begin{array}{c|cc|cc} 5 & 4 & 0 & 3 & 4 \\ 2 & -1 & 0 & 2 & -1 \\ 1 & 1 & 0 & 1 & 1 \end{array} \quad Dz=0$$

Letra D

03 - $\begin{cases} x+y+z=0 \\ kx+3y+4z=0 \\ x+ky+3z=0 \end{cases}$

$$D = \begin{vmatrix} 1 & 1 & 1 \\ k & 3 & 4 \\ 0 & k & 3 \end{vmatrix} = 0$$

$$9 + k^2 - 4k - 3k = 0$$

$$k^2 - 7k + 9 = 0$$

$$5 = k'' + k'' = -b$$

a

$$S = \frac{-(-7)}{1}$$

$$S = \frac{7}{1}$$

$$S = 7$$

Letra d



04- $\begin{cases} x + Kz = 0 \\ Kx + y = 0 \\ x + Ky = 0 \end{cases} \quad D = \begin{vmatrix} 1 & 0 & K \\ K & 1 & 0 \\ 1 & K & 0 \end{vmatrix} \quad D = K^3 - K'$

$1+0+0=1$

$K^2=0$

$D = \begin{vmatrix} 1 & 0 & 1 \\ 1 & 1 & 0 \\ 1 & 1 & 0 \end{vmatrix} \quad \begin{vmatrix} 1 & 0 \\ 1 & 1 \end{vmatrix} \quad 1-1=0$

$K=0 \quad K \neq 0$
P/SV

detra A

$0+0+1=1$

05- $\begin{cases} -x + 2y - 3 = 0 \\ 3x - x + 3 = 0 \\ 2x - 4x + 6 = 0 \end{cases} \quad D = \begin{vmatrix} -1 & 2 & -3 \\ 3 & -1 & 3 \\ 2 & -4 & 6 \end{vmatrix} \quad D = 0 //$

$6+12+36=54$

$6+12+36=54$

$Dx=0$

$Dx=0$

$Dz=0$

$0 =$
 0

detra B