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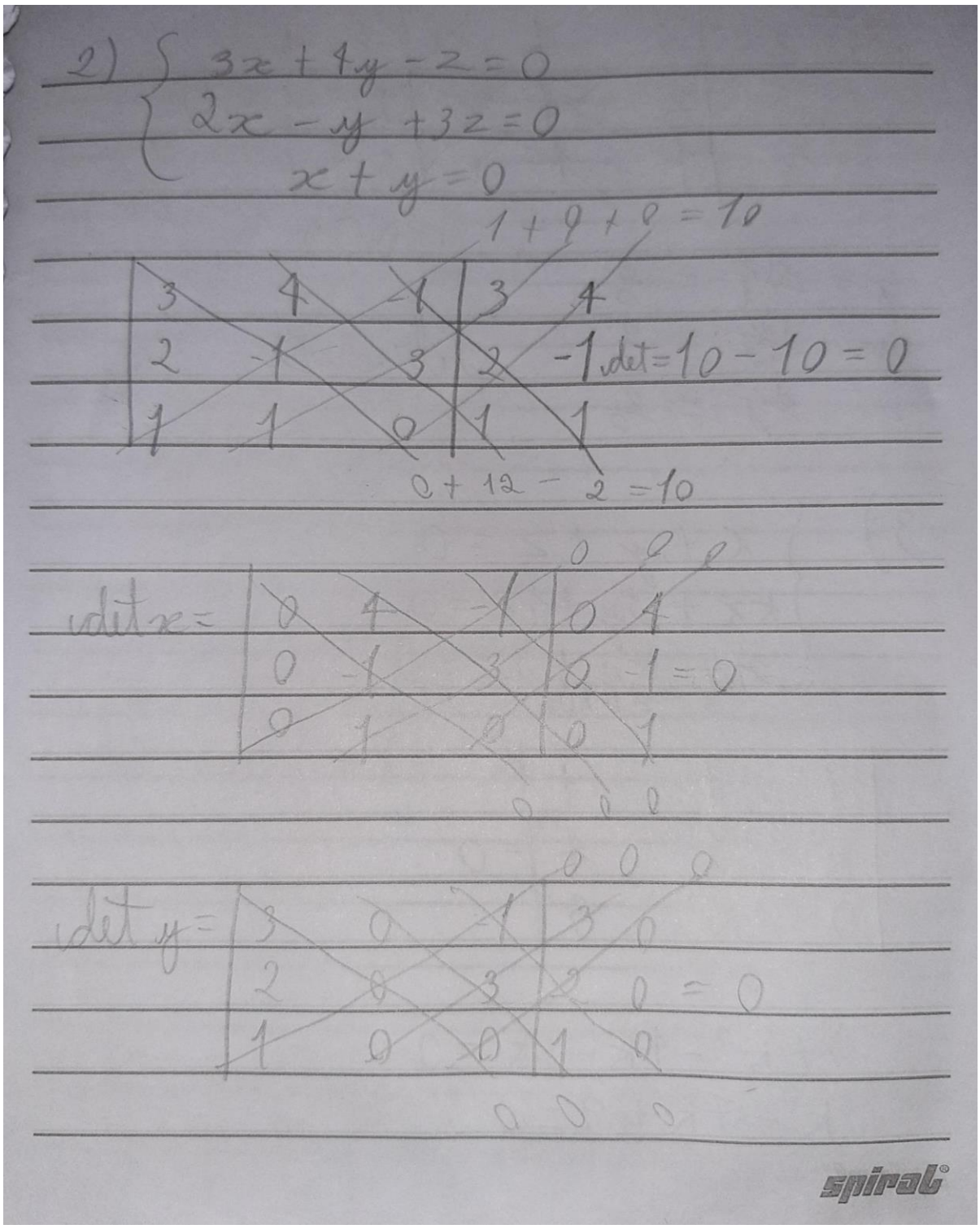
Sala: CTII 317



$$\det z = \begin{vmatrix} 3 & 4 & 0 \\ 2 & 1 & 0 \\ 1 & 1 & 0 \end{vmatrix} \begin{matrix} 3 & 4 \\ 2 & 1 \\ 1 & 1 \end{matrix} = 0$$

$$x = \frac{\det x}{\det} = \frac{0}{0}$$
$$y = \frac{\det y}{\det} = \frac{0}{0} \quad \text{letra D}$$
$$z = \frac{\det z}{\det} = \frac{0}{0}$$

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

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

$$9 + k^2 - 4k - 3k = 0$$
$$k^2 - 7k + 9 = 0$$

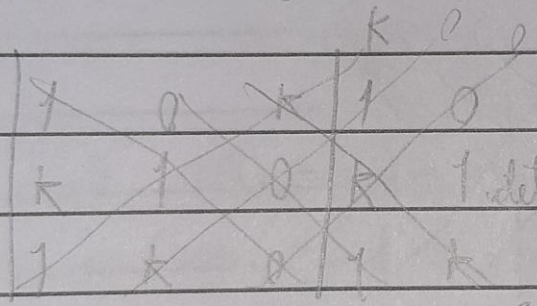
$S = x'' + x'' = \frac{b}{a}$

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

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

$S = 7$ letra D

4) $\begin{cases} x + kz = 0 \\ kx + y = 0 \\ x + ky = 0 \end{cases}$

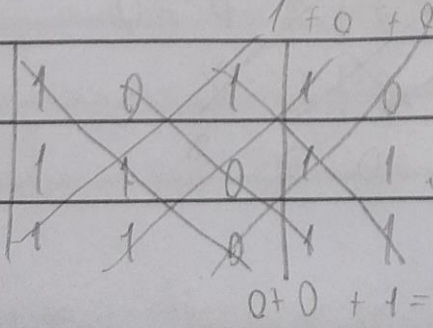


$1 \cdot det = k^3 - k^1 = k^2$

$k^3 \quad k^2 = 0$

$k = 0$

$k \neq 0$



$1 + 0 + 0 = 1$

$1 \cdot det = 1 - 1 = 0$

$0 + 0 + 1 = 1$

letra A

5) $\begin{cases} -x + 2y - 3 = 0 \\ 3x - y + 3 = 0 \\ 2x - 4y + 6 = 0 \end{cases}$

$6 + 12 + 36 = 54$

-1	2	-3	1	2
3	-1	3	3	-1
2	-4	6	2	-4

$det = 54 - 54 = 0$

$6 + 12 + 36 = 54$

det_x

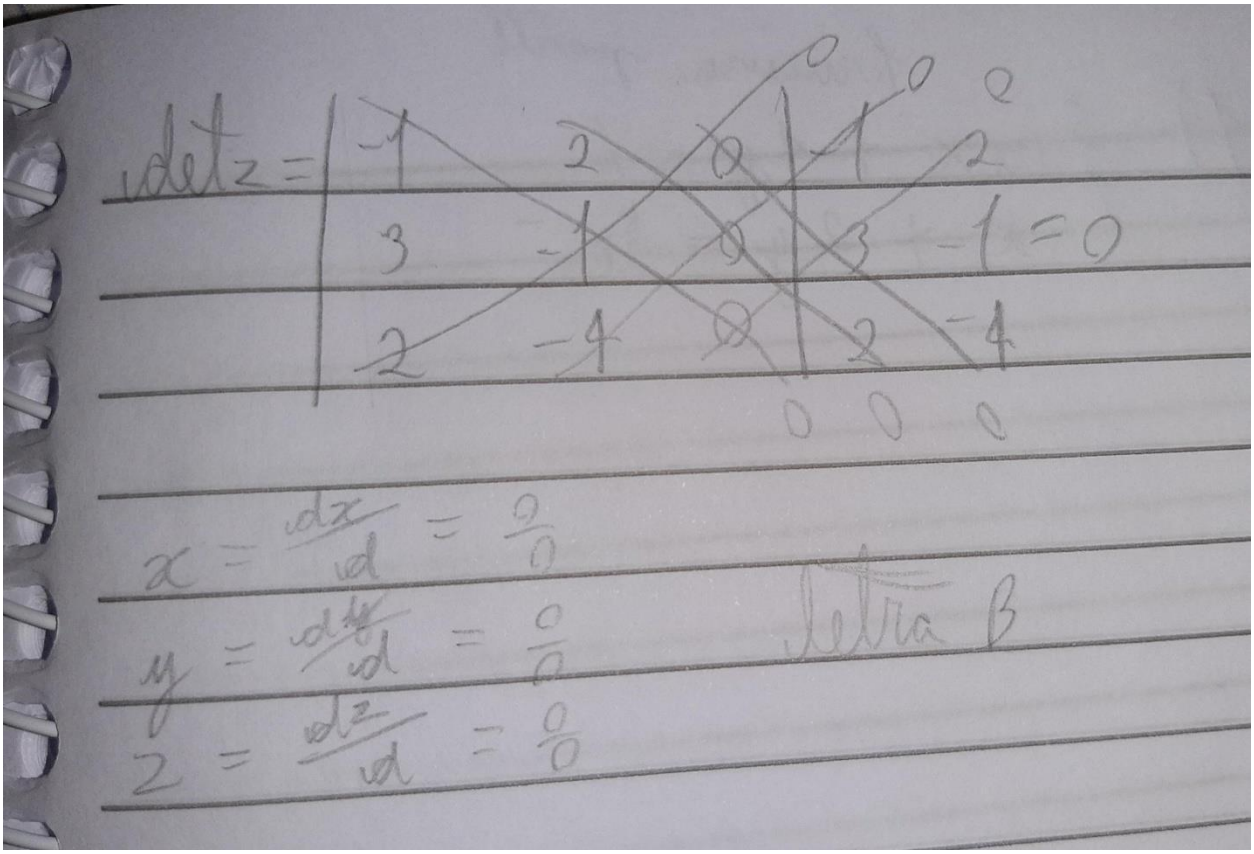
0	2	-3	0	2
0	-1	3	0	-1
0	-4	6	0	-4

$= 0$

det_y

-1	0	-3	1	0
3	0	3	3	0
2	0	6	2	0

$= 0$


det z =
-1 2 0 -1 2
3 -1 0 3 -1 = 0
2 -4 0 2 -4
x = dx/d = 0/0
y = dy/d = 0/0
z = dz/d = 0/0
letra B