

1-

$$A = \begin{bmatrix} a_{23} & a_{26} \\ a_{43} & a_{46} \\ a_{63} & a_{66} \end{bmatrix} \Rightarrow \begin{bmatrix} 5 & 8 \\ 7 & 10 \\ 9 & 12 \end{bmatrix} //$$

2-

$$A = \begin{bmatrix} a_{11} & a_{16} \\ a_{44} & a_{46} \end{bmatrix} \Rightarrow \begin{bmatrix} 5 & 17 \\ 8 & 20 \end{bmatrix} //$$

RESPOSTA: (A)

3-

$$\begin{bmatrix} 1 & x+2 \\ y-1 & z+1 \end{bmatrix} = \begin{bmatrix} 1 & -x \\ 2y & -2z \end{bmatrix}$$

$$\left. \begin{array}{l} x+2 = -x \\ 2x = -2 \\ x = -1 // \end{array} \right\} \left. \begin{array}{l} y-1 = 2y \\ -1 = y \\ y = -1 // \end{array} \right\} \left. \begin{array}{l} z+1 = -2z \\ 3z = -1 \\ z = -1/3 // \end{array} \right\}$$

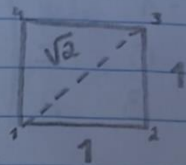
4-

$$\begin{bmatrix} 3 & -x \\ 3x & x \end{bmatrix} = \begin{bmatrix} 3 & y \\ 2x+1 & z-1 \end{bmatrix}$$

$$\left. \begin{array}{l} 3x = 2x+1 \\ x = 1 // \end{array} \right\} \left. \begin{array}{l} y = -1 // \end{array} \right\} \left. \begin{array}{l} 1 = z-1 \\ z = 2 // \end{array} \right\}$$

5 -

Cálculo Diagonal:



$$A = \begin{pmatrix} a_{11} & a_{12} & a_{13} & a_{14} \\ a_{21} & a_{22} & a_{23} & a_{24} \\ a_{31} & a_{32} & a_{33} & a_{34} \\ a_{41} & a_{42} & a_{43} & a_{44} \end{pmatrix} \Rightarrow A = \begin{pmatrix} 0 & 1 & \sqrt{2} & 1 \\ 1 & 0 & 1 & \sqrt{2} \\ \sqrt{2} & 1 & 0 & 1 \\ 1 & \sqrt{2} & 1 & 0 \end{pmatrix}$$

LETRA (B) //

6 -

$$A = \begin{bmatrix} -1 \\ 2 \\ 3 \end{bmatrix} \times 2$$

$$\Rightarrow 2A - B = \begin{bmatrix} -2 \\ 6 \\ 5 \end{bmatrix} //$$

$$B = \begin{bmatrix} 0 \\ -2 \\ 1 \end{bmatrix}$$

LETRA (D) //

7 -

$$A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \\ 5 & 6 \end{bmatrix} \quad B = \begin{bmatrix} -1 & 3 & 2 \\ 2 & 0 & 1 \end{bmatrix}$$

$$A - B^t = \begin{bmatrix} 1 & 2 \\ 3 & 4 \\ 5 & 6 \end{bmatrix} - \begin{bmatrix} -1 & 2 \\ 3 & 0 \\ 2 & 1 \end{bmatrix} \Rightarrow \begin{bmatrix} 2 & 0 \\ 0 & 4 \\ 3 & 5 \end{bmatrix} //$$

LETRA (B) //

8-

$$A = \begin{bmatrix} 2 & -1 & 2y \\ x & 0 & -z \\ 4 & 3 & 2 \end{bmatrix} = A^t = \begin{bmatrix} 2 & x & 4 \\ -1 & 0 & 3 \\ 2y & -z & 2 \end{bmatrix}$$

$$\left. \begin{array}{l} x = -1 // \\ 2y = 4 \\ y = 2 // \end{array} \right\} \left. \begin{array}{l} z = -3 // \\ -1 - 3 + 2 = -2 // \end{array} \right\}$$

LETRA (A) //

9-

$$A = \begin{bmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \\ a_{31} & a_{32} \end{bmatrix} \Rightarrow A = \begin{bmatrix} 1 & 3 \\ 3 & 1 \\ 4 & 5 \end{bmatrix}$$

$$B = \begin{bmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \\ a_{31} & a_{32} \end{bmatrix} \Rightarrow \begin{bmatrix} 1 & 0 \\ 0 & 2 \\ 0 & 0 \end{bmatrix} - 2$$

$$A + B = \begin{bmatrix} 2 & 3 \\ 3 & 3 \\ 4 & 5 \end{bmatrix} \text{ LETRA (C) } //$$

$$10 - M = \begin{bmatrix} x & 8 \\ 10 & y \end{bmatrix} \Rightarrow \frac{3}{2}M = \begin{bmatrix} \frac{3}{2}x & 12 \\ 15 & \frac{3}{2}y \end{bmatrix}$$

$$N = \begin{bmatrix} y & 6 \\ 12 & x+4 \end{bmatrix} \Rightarrow \frac{2}{3}N = \begin{bmatrix} \frac{2}{3}y & 4 \\ 8 & \frac{2x+8}{3} \end{bmatrix}$$

$$P = \begin{bmatrix} 7 & 16 \\ 23 & 13 \end{bmatrix}$$

$$\frac{3}{2}M + \frac{2}{3}N = P$$

$$\frac{3x}{2} + \frac{2y}{3} = 7$$

$$\frac{9x+4y}{6} = \frac{42}{6}$$

$$9x+4y=42 //$$

$$\frac{3}{2}M + \frac{2}{3}N = P$$

$$\frac{3y}{2} + \frac{2x+8}{3} = 13$$

$$\frac{9y+4x+16}{6} = \frac{78}{6}$$

$$9y+4x=62 //$$

$$y-x \Rightarrow 9y+4 - (9x+4y) = 62-42$$

$$5y-5x=20$$

$$5(y-x)=20$$

$$y-x=\frac{20}{5}$$

$$y-x=4 //$$

LETRA (B)