

⊗-Tarefa básica 2

$$1) A = \begin{pmatrix} A & B \\ C & D \end{pmatrix} \quad e \quad A^t = \begin{pmatrix} A & C \\ B & D \end{pmatrix}$$

$$(A^t)^t = \begin{pmatrix} A & B \\ C & D \end{pmatrix}$$

Letra (A)

2) Utiliza-se propriedade associativa.

$$(AB) \cdot C = A \cdot (BC)$$

Letra (D)



$$3) C = \begin{pmatrix} 5 & 8 & 10 \\ 9 & 6 & 4 \end{pmatrix} \cdot \begin{pmatrix} x \\ y \\ z \end{pmatrix}$$

$$2 \times 3 \cdot 3 \times 1 = \text{Letra } \textcircled{B}$$

$$4) A = \begin{pmatrix} a_1 & a_2 & a_3 \\ a_4 & a_5 & a_6 \\ a_7 & a_8 & a_9 \end{pmatrix} \cdot \begin{pmatrix} 1 \\ 0 \\ 0 \end{pmatrix} = \begin{pmatrix} -1 \\ 4 \\ 2 \end{pmatrix}$$

$$\begin{pmatrix} a_1 \\ a_4 \\ a_7 \end{pmatrix} = \begin{pmatrix} -1 \\ 4 \\ 2 \end{pmatrix} = \begin{pmatrix} a_1 = -1 \\ a_4 = 4 \\ a_7 = 2 \end{pmatrix}$$

$$A^t = \begin{pmatrix} a_1 & a_4 & a_7 \\ a_2 & a_5 & a_8 \\ a_3 & a_6 & a_9 \end{pmatrix} = \begin{pmatrix} -1 & 4 & 2 \\ a_2 & a_5 & a_8 \\ a_3 & a_6 & a_9 \end{pmatrix} \text{ Letra } \textcircled{C}$$