

Question 1 True/False: Let $T : V \rightarrow W$ be a linear transformation . The matrix for T relative to the bases \mathcal{B} and \mathcal{C} for V and W respectively is given by:

$$\begin{bmatrix} [T(\vec{b}_1)]_{\mathcal{C}} & [T(\vec{b}_2)]_{\mathcal{C}} & \cdots & [T(\vec{b}_n)]_{\mathcal{C}} \end{bmatrix}$$

where $\mathcal{B} = \{\vec{b}_1, \vec{b}_2, \dots, \vec{b}_n\}$.

Multiple Choice:

- (a) True ✓
- (b) False