¡Felicitaciones! ¡Aprobaste!

Calificación recibida 100 % Para Aprobar 100 % o más

Ir al siguiente elemento

1. Which matrix is not orthogonal? 1 / 1 punto

- $\begin{pmatrix} 0 & 1 \\ -1 & 0 \end{pmatrix}$
- $\begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix}$
- $\begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$
- (●) $\begin{pmatrix} 1 & -1 \\ 0 & 0 \end{pmatrix}$

Correcto

2. Which matrix rotates a three-by-one column vector an angle θ counterclockwise around the x-axis? 1 / 1 punto

- (●) $\begin{pmatrix} 1 & 0 & 0 \\ 0 & \cos\theta & -\sin\theta \\ 0 & \sin\theta & \cos\theta \end{pmatrix}$
- $\begin{pmatrix} \sin\theta & 0 & \cos\theta \\ 0 & 1 & 0 \\ \cos\theta & 0 & -\sin\theta \end{pmatrix}$
- $\begin{pmatrix} \cos\theta & -\sin\theta & 0 \\ \sin\theta & \cos\theta & 0 \\ 0 & 0 & 1 \end{pmatrix}$
- $\begin{pmatrix} \cos\theta & \sin\theta & 0 \\ -\sin\theta & \cos\theta & 0 \\ 0 & 0 & 1 \end{pmatrix}$

Correcto

3. Which matrix, when left multiplying another matrix, moves row one to row two, row two to row three, and row three to row one? 1 / 1 punto

- $\begin{pmatrix} 0 & 1 & 0 \\ 0 & 0 & 1 \\ 1 & 0 & 0 \end{pmatrix}$
- (●) $\begin{pmatrix} 0 & 0 & 1 \\ 1 & 0 & 0 \\ 0 & 1 & 0 \end{pmatrix}$
- $\begin{pmatrix} 0 & 0 & 1 \\ 0 & 1 & 0 \\ 1 & 0 & 0 \end{pmatrix}$
- $\begin{pmatrix} 1 & 0 & 0 \\ 0 & 0 & 1 \\ 0 & 1 & 0 \end{pmatrix}$

Correcto