

Quiz problems

You do not need to turn them in but make sure you know how to do them.

1. Determine whether the map $L : \mathbb{R}_2 \rightarrow \mathbb{R}_2$ is a linear transformation, $L([a, b]) = [1, -b]$.
Ans. no.
2. A linear transformation $L : \mathbb{R}_3 \rightarrow \mathbb{R}_3$ is defined by $L([a, b, c]) = [a - c, 2b + c]$. Find the standard matrix that represents L . Use the standard matrix to find $L([-1, 1, 2])$.