$\mathbf{Quiz}\ \mathbf{4}$

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- 1. Let V and W be vector spaces.
 - (a) Define what is an isomorphism between V and W.

(b) Define what is means for V to be isomorphic to W.

2. Let V and W be vector spaces. Let $T:V\to W$ and $U:W\to V$ be linear transformations so that $U\circ T:V\to V$ is an isomorphism. Prove that T is one-to-one.