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MA 26500-215 Quiz 10

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1. Let V and W be subspaces of \mathbb{R}^n . Suppose $L: V \rightarrow W$ is a surjective map
2. Does there exist a linear transformation $L: V \rightarrow W$ is a such that

$$\|L(x)\| \leq 1$$

for all $x \in V$?