

Quiz 3 - Redo

Pick two vector spaces from the following set.

$$\{\mathbb{R}^n, M_{n \times n}, \mathbb{P}_n, \mathbb{S}\}$$

For each vector space you choose

1. Find a nonzero subspace, H , of V . Prove that H is a subspace.
2. Find a set, W , that is not a subspace of V . Prove that W is not a subspace.