

Math 3160 - Quiz 4

Name: _____

1. Prove Theorem 4.1.1
2. Show that $W = \{(a, b, a + 2b) | a, b \in \mathbb{R}\}$ is a subspace of $\mathbb{R}^3$.
3. Show that $W = \{(a + 1, 3a, a + b) | a, b \in \mathbb{R}\}$ is **not** a subspace of $\mathbb{R}^3$.