**TEXTBOOK:** Linear Algebra
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**READ:** Sections 1.6, 2.1, 2.2.

**PROBLEMS:**

1. Section 1.6: # 4, 8, 12, 14, 18, 20, 34, 36, 38, 42, 43, 44.

2. Let $V$ and $W$ be subspaces of $\mathbf{R}^n$. Prove that the set $V + W = \{\mathbf{v} + \mathbf{w} \mid \mathbf{v} \in V,\ \mathbf{w} \in W\}$ is a subspace of $\mathbf{R}^n$.