Provide a counterexample to justify each of the following false statements.

16. If \vec{w} is a linear combination of \vec{u} and \vec{v} in \mathbb{R}^3 , then \vec{u} is a linear combination of \vec{v} and \vec{w} .

17. Suppose that $\vec{v_1}, \vec{v_2}$ and $\vec{v_3}$ are in \mathbb{R}^5 , $\vec{v_2}$ is not a multiple of $\vec{v_1}$, and $\vec{v_3}$ is not a linear combination of $\vec{v_1}$ and $\vec{v_2}$. Then $\{\vec{v_1}, \vec{v_2}, \vec{v_3}\}$ is linearly independent.