1) Find three vectors \( \{\vec{v}_1, \vec{v}_2, \vec{v}_3\} \) in \( \mathbb{R}^3 \) such that any pair of these have the same span.

2) Find three nonzero vectors \( \{\vec{v}_1, \vec{v}_2, \vec{v}_3\} \) in \( \mathbb{R}^3 \) such that the span of \( \vec{v}_i \) is independent of \( i \). What can you then say about the span of \( \{\vec{v}_1, \vec{v}_2, \vec{v}_3\} \)?