Let $V$ and $W$ denote vector spaces, and let $S = \{a_1, a_2, \ldots, a_m\}$ denote a set of vectors in $V$. Define the italicized terms.

1. $S$ is *linearly independent*.

2. $S$ spans $V$.

3. The function $W \leftarrow V : T$ is a *linear transformation*.
Name ____________________________