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

11. Every matrix is row equivalent to a unique matrix in echelon form.

12. Any system of $n$ linear equations in n variables has at most $n$ solutions.

13. If $A$ is an $m \times n$ matrix and the equation $A\vec{x} = \vec{b}$ is consistent for some $\vec{b}$, then the columns of $A$ span $\mathbb{R}^m$.

14. If $\vec{u}$, $\vec{v}$ and $\vec{w}$ are nonzero vectors in $\mathbb{R}^2$, then $\vec{w}$ is a linear combination of $\vec{u}$ and $\vec{v}$.