QUIZ October 9, 2013

1. The nullspace of a matrix is always a subspace of its domain.

2. The columnspace of a matrix is always a subspace of its domain.

3. A Span of vectors in $\mathbb{R}^n$ forms a subspace of $\mathbb{R}^n$.

4. The set containing just the zero vector $\mathbf{0}$ in $\mathbb{R}^n$ forms a subspace of $\mathbb{R}^n$.

5. The vectors $\mathbf{x}$ and $\mathbf{y}$ form a basis of Span $\{\mathbf{x}, \mathbf{y}\}$.

6. The solutions to $A\mathbf{x} = \mathbf{b}$ forms a subspace of the domain.