🕼 Quiz: Section 4.3	Linear Algebra	October 11, 2018
	MATH 310	
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1. Let $V = C(-\infty, \infty)$ be the vector space of all continuous functions $f : \mathbb{R} \to \mathbb{R}$. Let $W = \{f \in V : f(0) = 1\} \subseteq V$. That is, W is the set of all functions in V that equal 1 when you plug 0 into them. Is W is a subspace of V? Why or why not?

2. Let A be a fixed $m \times n$ matrix. Is the set $W = \left\{ x \in \mathbb{R}^n : Ax = 0 \right\}$ a subspace of \mathbb{R}^n ? Why or why not?