Lay 4.1 Math 2210Q

Question 1 True/False: \mathbb{R}^n is a vector space. Multiple Choice:						
						(a) True √
						(b) False
Question 2 True/False: The x-axis is a subspace of \mathbb{R}^2 .						
Multiple Choice:						
(a) True ✓						
(b) False						
Question 3 True/False: The zero vector is a subspace of ${\bf R^n}$. Multiple Choice:						
(a) True ✓						
(b) False						
Question 4 True/False: Any plane in \mathbb{R}^3 is a subspace of \mathbb{R}^3 .						
Multiple Choice:						
(a) True						
(b) False ✓						

Question 5 True/False: Let $S = \{\vec{v_1}, \dots, \vec{v_p}\}$ be a set of vectors in a nonzero finite dimensional vector space V. The set of all linear combinations of the vectors in S is not a vector space.

Multiple Choice:

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(a) Irue

(b)	Fals	se 🗸

Question 6 True/False: Let $S = \{\vec{v_1}, \dots, \vec{v_p}\}$ be a set of vectors in a nonzero finite dimensional vector space V. If $\{\vec{v_1}, \dots, \vec{v_{p-1}}\}$ spans V, then S spans V.

${\it Multiple\ Choice:}$

- (a) True ✓
- (b) False