

QUIZ September 6, 2013

Clicker Instructions: A = True; B = False;

C = I don't know; D = No truth value

correct = 1pt; don't know = 0pt; wrong = -1pt

1. If $\mathbf{u} = \begin{pmatrix} 2 \\ 0 \end{pmatrix}$, and $\mathbf{v} = \begin{pmatrix} 1 \\ 1 \end{pmatrix}$, then $2\mathbf{u} + \mathbf{v} = \begin{pmatrix} 5 \\ 1 \end{pmatrix}$.

2. The following augmented matrix represents a consistent system:

$$\begin{bmatrix} 2 & 1 & 5 \\ 0 & 1 & 1 \end{bmatrix}$$

3. If $\begin{pmatrix} a \\ b \end{pmatrix} = x \begin{pmatrix} 2 \\ 0 \end{pmatrix} + y \begin{pmatrix} 1 \\ 1 \end{pmatrix}$, then $b = y$.

4. $\text{Span} \left\{ \begin{pmatrix} 2 \\ 0 \end{pmatrix}, \begin{pmatrix} 1 \\ 1 \end{pmatrix} \right\}$ contains the vector $\begin{pmatrix} 5 \\ 1 \end{pmatrix}$.

5. $\text{Span} \left\{ \begin{pmatrix} 1 \\ 0 \end{pmatrix}, \begin{pmatrix} 0 \\ 1 \end{pmatrix} \right\} = \mathbb{R}^2$.

6. $\text{Span} \left\{ \begin{pmatrix} 2 \\ 0 \end{pmatrix}, \begin{pmatrix} 1 \\ 1 \end{pmatrix} \right\} = \mathbb{R}^2$.