MASTERY QUIZ DAY 17

Math 237 – Linear Algebra Fall 2017

Version 4

Show all work. Answers without work will not receive credit. You may use a calculator, but you must show all relevant work to receive credit for a standard.

V3. Determine if the vectors
$$\begin{bmatrix} 1\\1\\2\\1 \end{bmatrix}$$
, $\begin{bmatrix} 3\\3\\6\\3 \end{bmatrix}$, $\begin{bmatrix} 3\\-1\\3\\-2 \end{bmatrix}$, and $\begin{bmatrix} 7\\-1\\8\\-3 \end{bmatrix}$ span \mathbb{R}^4 .

V4. Determine if
$$\left\{ \begin{bmatrix} x \\ y \\ 0 \\ z \end{bmatrix} \mid x, y, z \in \mathbb{R} \right\}$$
 a subspace of \mathbb{R}^4 .

S2. Determine if the set $\left\{ \begin{bmatrix} 3 & -1 \\ 2 & 3 \end{bmatrix}, \begin{bmatrix} 2 & 0 \\ 2 & 4 \end{bmatrix}, \begin{bmatrix} 1 & 4 \\ -1 & 8 \end{bmatrix}, \begin{bmatrix} -1 & 3 \\ 0 & 4 \end{bmatrix} \right\}$ is a basis of $\mathbb{R}^{2 \times 2}$.

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