Name:	
J#:	Dr. Clontz
Date:	

## MASTERY QUIZ DAY 15

Math 237 – Linear Algebra Fall 2017

Version 1 Fall 2017 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.

Standard V2.	Mark:	
Determine if $\begin{bmatrix} 0 \\ 0 \\ 2 \end{bmatrix}$ can be	written as a linear combination of the vector	ors $\begin{bmatrix} -1\\ -9\\ 15 \end{bmatrix}$ and $\begin{bmatrix} 1\\ 5\\ -5 \end{bmatrix}$ .

Standard S1.

Determine if the set of vectors  $\left\{ \begin{bmatrix} -3 \\ 8 \\ 0 \end{bmatrix}, \begin{bmatrix} 1 \\ 2 \\ 2 \end{bmatrix}, \begin{bmatrix} 0 \\ -1 \\ 3 \end{bmatrix} \right\}$  is linearly dependent or linearly independent

Standard S3.

$$\begin{bmatrix}
Mark: \\
Mark: \\
\end{bmatrix}$$
Let  $W = \operatorname{span} \left( \left\{ \begin{bmatrix} 1 \\ 1 \\ 2 \\ 1 \end{bmatrix}, \begin{bmatrix} 3 \\ 3 \\ 6 \\ 3 \end{bmatrix}, \begin{bmatrix} 3 \\ -1 \\ 3 \\ -2 \end{bmatrix}, \begin{bmatrix} 7 \\ -1 \\ 8 \\ -3 \end{bmatrix} \right\} \right)$ . Find a basis for  $W$ .

Standard S4. 
$$\begin{bmatrix} & & & \\ & & & & \\ & &$$

Additional Notes/Marks