Name:	
J#:	Dr. Clontz
Date:	

MASTERY QUIZ DAY 15

Math 237 – Linear Algebra Fall 2017

Version 5 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.

Standar		Mark:				
Determine if	$\begin{bmatrix} 1 \\ 4 \\ 3 \end{bmatrix}$ is a lin	ear com	bination of the vectors	$\begin{bmatrix} 2\\3\\-1 \end{bmatrix},$	$\begin{bmatrix} 1 \\ -1 \\ 0 \end{bmatrix}, a$	and $\begin{bmatrix} -3\\-2\\5 \end{bmatrix}$.

Standard S1.
$$\begin{bmatrix} 1 \\ 1 \\ -1 \end{bmatrix}, \begin{bmatrix} 3 \\ -1 \\ 1 \end{bmatrix}, \text{ and } \begin{bmatrix} 2 \\ 0 \\ -2 \end{bmatrix} \text{ are linearly dependent or linearly independent}$$

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