Name:	
J#:	Dr. Clontz
Date:	

## MASTERY QUIZ DAY 15

Math 237 – Linear Algebra Fall 2017

Version 1

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 V	Mark:			
Determine if $\begin{bmatrix} 0 \\ -1 \\ 2 \\ 6 \end{bmatrix}$	can be writte	en as a linear combination of the ve	ectors $\begin{bmatrix} 3 \\ -1 \\ -1 \\ 0 \end{bmatrix}$ and	$1 \begin{bmatrix} -1\\0\\1\\2 \end{bmatrix}.$

Standard S1.	Mark:			
Determine if the vectors	$\begin{bmatrix} 1 \\ 1 \\ -1 \end{bmatrix},$	$\begin{bmatrix} 3 \\ -1 \\ 1 \end{bmatrix}$ , and $\begin{bmatrix} -1 \\ -1 \end{bmatrix}$	$\begin{bmatrix} 2 \\ 0 \\ -2 \end{bmatrix}$	are linearly dependent or linearly independent

Standard S3.

Mark:

Let W be the subspace of  $\mathcal{P}_2$  given by  $W = \text{span}\left(\left\{-3x^2 - 8x, x^2 + 2x + 2, -x + 3\right\}\right)$ . Find a basis for W.

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

Additional Notes/Marks