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.

Determine if
$$\begin{bmatrix} 0 \\ -1 \\ 6 \\ -7 \end{bmatrix}$$
 belongs to the span of the set $\left\{ \begin{bmatrix} 2 \\ 0 \\ -1 \\ 5 \end{bmatrix}, \begin{bmatrix} 4 \\ -1 \\ 4 \\ 3 \end{bmatrix} \right\}$.

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