Name:	
J#:	Dr. Clontz
Date:	

MASTERY QUIZ DAY 15

Math 237 – Linear Algebra Fall 2017

Version 3 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	d V2.	Mark:						
Determine if	$\begin{bmatrix} 1 \\ 4 \\ 3 \end{bmatrix}$ is a lin	ear com	bination of the vectors	$\begin{bmatrix} 3 \\ 0 \\ -1 \end{bmatrix},$	$\begin{bmatrix} 1 \\ -1 \\ 4 \end{bmatrix}$	\int , and	$\begin{bmatrix} 5 \\ 1 \\ -6 \end{bmatrix}$	

	Mark:
Standard S1.	

Determine if the set of polynomials $\{x^2 + x, x^2 + 2x - 1, x^2 + 3x - 2\}$ is 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