Name:	
J#:	Dr. Clontz
Date:	

## MASTERY QUIZ DAY 17

Math 237 – Linear Algebra Fall 2017

Version 2 Fall 2017 Show all work. Answers without work will not receive credit. You may use a calculator, but you must show

Standar	rd V3.	Mark	
Does span {	$\begin{bmatrix} 2 \\ -1 \\ 4 \\ 2 \\ 1 \end{bmatrix}, \begin{bmatrix} -1 \\ 3 \\ 5 \\ 2 \\ 0 \end{bmatrix}$	$\begin{bmatrix} 1 \\ 0 \\ 0 \end{bmatrix}$	$\left. \begin{array}{c} \boxed{1} \\ 0 \\ 5 \\ 1 \\ 3 \end{array} \right\} = \mathbb{R}^5?$

all relevant work to receive credit for a standard.

Standard V4.

Mark:

Let W be the set of all  $\mathbb{R}^3$  vectors  $\begin{bmatrix} x \\ y \\ z \end{bmatrix}$  satisfying x + y + z = 0 (this forms a plane). Determine if W is a subspace of  $\mathbb{R}^3$ .

Standard S2.

Mark:

Determine if the set  $\{x^2 + x - 1, 3x^2 - x + 1, 2x - 2\}$  is a basis of  $\mathcal{P}_2$ 

Additional Notes/Marks