Name:	
J#:	Dr. Clontz
Date:	

MASTERY QUIZ DAY 17 Version 3

Math 237 – Linear Algebra 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.

Standard V3.	Mark:			
Determine if the vectors	$\begin{bmatrix} 1 \\ 1 \\ 2 \\ 1 \end{bmatrix}, \begin{bmatrix} 3 \\ 3 \\ 6 \\ 3 \end{bmatrix}$	$\left \begin{array}{c} 3 \end{array} \right , \left \begin{array}{c} 3 \end{array} \right $	$, \text{ and } \begin{bmatrix} 7 \\ -1 \\ 8 \\ -3 \end{bmatrix} $	

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