Name:	
J#:	Dr. Clontz
Date:	

## MASTERY QUIZ DAY 17

Version 1

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:

$$\begin{bmatrix} 1 \\ 0 \\ 2 \\ 1 \end{bmatrix}, \begin{bmatrix} 3 \\ 1 \\ 0 \\ -3 \end{bmatrix}, \begin{bmatrix} 0 \\ 3 \\ 0 \\ -2 \end{bmatrix}, \text{ and } \begin{bmatrix} -1 \\ 1 \\ -1 \\ -1 \end{bmatrix} \text{ span } \mathbb{R}^4.$$

	Mark:
Standard V4.	

Let W be the set of all polynomials of the form  $ax^3 + bx$ . Determine if W is a subspace of  $\mathcal{P}^3$ .

Standard S2.

Mark:

Determine if the set  $\left\{ \begin{bmatrix} 1\\1\\-1 \end{bmatrix}, \begin{bmatrix} 3\\-1\\1 \end{bmatrix}, \begin{bmatrix} 2\\0\\-2 \end{bmatrix} \right\}$  is a basis of  $\mathbb{R}^3$ 

Additional Notes/Marks