Name:	
J#:	Dr. Clontz
Date:	

MASTERY QUIZ DAY 17

Version 2

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	$\begin{bmatrix} 2 \\ 0 \\ -2 \\ 0 \end{bmatrix},$	$\begin{bmatrix} 3 \\ 1 \\ 3 \\ 6 \end{bmatrix}$,	$\begin{bmatrix} 0 \\ 0 \\ 1 \\ 1 \end{bmatrix}$, and	$\begin{bmatrix} 1 \\ 2 \\ 0 \\ 1 \end{bmatrix} $ span \mathbb{R}^4 .

	Mark:
Standard V4.	

Determine if the set of all lattice points, i.e. $\{(x,y) \mid x \text{ and } y \text{ are integers}\}$ is a subspace of \mathbb{R}^2 .

Standard S2.

Mark:

Determine if the set $\{x^3 - x, x^2 + x + 1, x^3 - x^2 + 2, 2x^2 - 1\}$ is a basis of \mathcal{P}_3

Additional Notes/Marks