Name:	
J#:	Dr. Clontz
Date:	

MASTERY QUIZ DAY 17

Version 4

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.

$$\begin{bmatrix}
2 \\
-1 \\
4
\end{bmatrix}, \begin{bmatrix} 3 \\
12 \\
-9
\end{bmatrix}, \begin{bmatrix} 1 \\
2 \\
3 \end{bmatrix}, \begin{bmatrix} -4 \\
2 \\
-8
\end{bmatrix} = \mathbb{R}^3?$$

Standard V4.	Aark:

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