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} 8 \\ 21 \\ -7 \end{bmatrix}, $	$\begin{bmatrix} -3 \\ -8 \\ 3 \end{bmatrix}, \begin{bmatrix} -1 \\ -3 \\ 2 \end{bmatrix}, $ and	$\begin{bmatrix} 4\\11\\-5 \end{bmatrix} \text{ span } \mathbb{R}^3.$

	Mark:
Standard V4.	

Let W be the set of all complex numbers that are purely real (i.e of the form a+0i) or purely imaginary (i.e. of the form 0+bi). Determine if W is a subspace of \mathbb{C} .

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