Name:	
J#:	Dr. Clontz
Date:	

MASTERY QUIZ DAY 12

Math 237 – Linear Algebra Fall 2017

Version 3

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.

	Mark:
Standard V1.	

Let V be the set of all real numbers together with the operations \oplus and \odot defined by, for any $x,y\in V$ and $c\in\mathbb{R}$,

$$x \oplus y = x + y - 3$$
$$c \odot x = cx - 3(c - 1)$$

Determine if V is a vector space or not.

Standard V3.	Mark:

Determine if ... spans \mathbb{R}^3

Standard V4.	Mark:
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Determine if ... is a subspace of