Name:	
J#:	Dr. Clontz
Date:	

MASTERY QUIZ DAY 12 Math 237 – Linear Algebra
Version 1 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 V1.	Mark:

Let V be the set of all points on the line $x+y=2$ with the operations, for any $(x_1,y_1),(x_2,y_2)\in V$, $c\in\mathbb{R}$,

$$(x_1,y_1)\oplus(x_2,y_2)=(x_1+x_2-1,y_1+y_2-1)$$
$$c\odot(x_1,y_1)=(cx_1-(c-1),cy_1-(c-2))$$

Determine if V is a vector space or not.

Standard V3.	Mark:

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

Standard V4.	Mark:

Determine if ... is a subspace of