Name:

MASTERY QUIZ DAY 8

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.

E1. Write an augmented matrix corresponding to the following system of linear equations.

$$x + 3y - 4z + w = 5$$

$$3x + 9y + z - 7w = 0$$

$$x - z + w = 1$$

E3. Solve the system of equations

$$x + 3y - 4z = 5$$

$$3x + 9y + z = 2$$



V1. 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.

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E1:	E3	:	E4:	V 1:	