Name:	
J#:	Dr. Clontz
Date:	

$\mathbf{MASTERY}\ \mathbf{QUIZ}\ \mathbf{DAY}\ \mathbf{10}$

Math 237 – Linear Algebra Fall 2017

Version 4

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 E1.

Mark:

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

$$x_1 + 4x_3 = 1$$
$$x_2 - x_3 = 7$$
$$x_1 - x_2 + 3x_3 = -1$$

Standard E3.

Solve the system of linear equations.

$$2x + y - z + w = 5$$
$$3x - y - 2w = 0$$
$$-x + 5z + 3w = -1$$

Standard E4.	Mark:
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Find a basis for the solution set of the system \dots

Standard 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.