MASTERY QUIZ DAY 8

Math 237 – Linear Algebra

Version 4

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.

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

$$3x + 9y + z = 0$$

$$x - z = 1$$

Solution:

$$\begin{bmatrix} 1 & 3 & -4 & 5 \\ 3 & 9 & 1 & 0 \\ 1 & 0 & -1 & 1 \end{bmatrix}$$

E3. Solve the system of equations

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

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

- **E4.** Find a basis for the solution set of the system ...
- V1. Determine if ... is a vector space

Solution:

E1:

E3:

E4:

E2: