

Name: \_\_\_\_\_

**MASTERY QUIZ DAY 6**

Math 237 – Linear Algebra

**Version 2**

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:**

$$\left[ \begin{array}{ccc|c} 1 & 3 & -4 & 5 \\ 3 & 9 & 1 & 0 \\ 1 & 0 & -1 & 1 \end{array} \right]$$

□

**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 ...

**E1:**

**E3:**

**E4:**