

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

**MASTERY QUIZ DAY 10**

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.

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

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

$$x - z + w = 1$$

**E3.** Solve the system of equations

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

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

$$2x + 6y + 3z + 8w = 0$$

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

**E4.** Find a basis for the solution set of the system ...

**V1.** Determine if ... is a vector space

**E1:**

**E3:**

**E4:**

**V1:**