MASTERY QUIZ DAY 6   Math 237 – Linear Algebra
Version 5   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.

$$x + 3y - 4z = 5$$
$$3x + 9y + z = 0$$
$$x - z = 1$$

E3. Solve the following linear system.

$$4x_1 + 4x_2 + 3x_3 - 6x_4 = 5$$
$$-2x_3 - 4x_4 = 3$$
$$2x_1 + 2x_2 + x_3 - 4x_4 = -1$$

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

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

E1: [ ] **E3:** [ ] **E4:** [ ] **E2:** [ ]