

Name:
J#:
Date:

Dr. Clontz

## 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.

<b>Standard E1.</b>	Mark:
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Write an augmented matrix corresponding to the following system of linear equations.

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

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

$$x - z + w = 1$$

**Solution:**

$$\left[ \begin{array}{cccc|c} 1 & 3 & -4 & 1 & 5 \\ 3 & 9 & 1 & -7 & 0 \\ 1 & 0 & -1 & 1 & 1 \end{array} \right]$$

□

<b>Standard E3.</b>	Mark:
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Solve the system of equations

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

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

<b>Standard E4.</b>	Mark:
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Find a basis for the solution set of the system ...