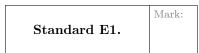
Name:	
J#:	Dr. Clontz
Date:	

## MASTERY QUIZ DAY 6

Math 237 – Linear Algebra Fall 2017

Version 5

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.



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:

$$\begin{bmatrix} 1 & 3 & -4 & 1 & 5 \\ 3 & 9 & 1 & -7 & 0 \\ 1 & 0 & -1 & 1 & 1 \end{bmatrix}$$

Standard E3.

Mark:

Solve the system of equations

$$x + 3y - 4z = 5$$
$$3x + 9y + z = 2$$

Standard E4.

Mark:

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