

Linear. Quiz 1. Name _____ Time _____

Show all work on this page for full and/or partial credit. Put a box around your final answers in each part.

1. Solve this system of equations using elimination. Don't use a matrix here.

$$\left\{ \begin{array}{l} x + 2y - 3z = 13 \\ 2x - y + z = 0 \\ x + 5y = 7 \end{array} \right\}$$

2. Write the above system from number (1) as an augmented matrix. (No need to solve it again).

3. Solve this system using row reduction. That is, write it as a matrix, reduce until it is in reduced row echelon form, and then write your answer in terms of the free variable z .

$$\left\{ \begin{array}{l} x + 3z = 4 \\ 2x + y = 1 \end{array} \right\}$$