

Name: _____

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1. Write the general solution to the equations whose row-echelon augmented matrix is:

$$\left[\begin{array}{ccccc|c} 1 & 4 & 0 & 0 & 2 & 1 \\ 0 & 0 & 1 & 0 & 5 & 2 \\ 0 & 0 & 0 & 1 & 0 & 3 \end{array} \right]$$

2. Convert to reduced row-echelon form:

$$\left[\begin{array}{cccc|c} 2 & 2 & -2 & 2 & 2 \\ 1 & 1 & 1 & 5 & 3 \\ 3 & 3 & 1 & 11 & 9 \end{array} \right]$$