

Last name _____

First name _____

LARSON—MATH 310—WORKSHEET 6
Gauss-Jordan Reduction

1. Find the reduced echelon form of the following matrix.

$$\left(\begin{array}{cc|c} 2 & 1 & 7 \\ 4 & -2 & 6 \end{array} \right)$$

2. The reduced echelon matrix corresponds to a system of equations. Write the system.
3. Express the solutions as a set of vectors.

4. Find the reduced echelon form of the following matrix.

$$\left(\begin{array}{cccc|c} 1 & 0 & -1 & 0 & 1 \\ 0 & 1 & 2 & -1 & 3 \\ 1 & 2 & 3 & -1 & 7 \end{array} \right)$$

5. The reduced echelon matrix corresponds to a system of equations. Write the system.

6. Express the solutions as a set of vectors.