

Last name \_\_\_\_\_

First name \_\_\_\_\_

**LARSON—MATH 310—WORKSHEET 3**  
**Gauss' Method—Parameterizing Solutions**

1. Rewrite the following system as an augmented matrix and reduce solve using Gauss' method. Represent the solutions as a vector or vectors.

$$\begin{array}{rcl} 2x & +3y & = 13 \\ x & -y & = -1 \end{array}$$

2. Write the system of equations that the reduced matrix represents.
3. Represent the solutions as a vector or vectors.

4. The following augmented matrix represents a system of linear equations. Write the system.

$$\left( \begin{array}{ccc|c} 2 & 1 & 1 & 1 \\ 0 & 1 & 3 & 5 \end{array} \right)$$

5. Solve the system. Represent the solutions in vector form.