Name: _

Directions: Show all work. No credit for answers without work.

- 1. **[1 point]** Complete the following sentence: The number of solutions to a system of linear equations is either
- 2. [1 point] Give an example of an *inconsistent* system of linear equations in a single variable x.
- 3. [4 points] Find all solutions to the following system of linear equations. (Use any method you like.)

4. [4 points] Using *matrices* and *Gauss-Jordan* elimination, find all solutions to the following system of linear equations.