This Worksheet will **not** be collected. We will discuss these problems during Friday's lecture.

- 1.1. Introduction to Systems of Linear Equations
 - 1. Find all solutions to the following system of linear equations. That is, find all values of x, y, z that satisfies all of the equations below:

$$x - y - z = 1$$

$$2x - 3y - z = 3$$

$$-x + y - z = -3$$

2. Do the same for the following system:

$$x - y + z = 1$$

$$2x - 2y - z = 3$$

$$-x + y - z = -3$$

3. Do the same for one more system:

$$x - y - z = 1$$

$$2x - 2y - z = 3$$

$$-x + y - z = -3$$