Name: _____

MATH 108
Fall 2021
HW 2: Due 09/28

Problem 1. (10pt) Solve the following system of equations:

$$2x - y = 5$$
$$x + y = 1$$

Problem 2. (10pt) Solve the following system of equations:

$$4x - 3y = 10$$
$$6x + 5y = -4$$

Problem 3. (10pt) Solve the following system of equations:

$$\frac{1}{2}x - \frac{1}{6}y = -1$$
$$x - \frac{1}{3}y = -2$$

Problem 4. (10pt) Solve the following system of equations:

$$6x - 5y = 1$$
$$3x + 10y = 3$$

Problem 5. (10pt) Plot the solution set to the system of inequalities:

$$4x + y \leq 1$$
$$x - 2y \leq -20$$

Problem 6. (10pt) Plot the solution set to the system of inequalities:

$$x \geq 1$$
$$-3x + y \geq -4$$