Name:	(7.1
MATH 108	"Listen, I'm not the nicest guy in the
Fall 2021 HW 2: Due 09/28	universe, because I'm the smartest, and being nice is something stupid people do
	to hedge their bets."
	–Rick Sanchez, Rick & Morty

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:

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

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

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:

$$4x + y \le 1$$

$$x - 2y \le -20$$

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

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