Name:	(CTA7) 1' ('C') 1 1 1 1 1	
MATH 101	"When you are dissatisfied and would like to go back to youth, think of Algebra"	
Spring 2022 HW 11: Due 04/12		
	– Will Rogers	

Problem 1. (10pt) Determine whether (x,y)=(3,-1) is a solution to the following system of equations:

$$4x - 6y = 18$$
$$5x + y = 12$$

Problem 2. (10pt) Use substitution to solve the following system of equations:

$$2x - y = 11$$

$$5x + 2y = 14$$

Problem 3. (10pt) Use elimination to solve the following system of equations:

$$3x - 5y = -23$$

$$2x + 10y = 10$$

Problem 4. (10pt) Determine whether the following system of equations has a solution:

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

$$6x - 15y = 18$$