Name:	<i>"</i> "	
MATH 101	"Give me some of your tots!"	
Fall 2021	–Napoleon Dynamite,	
HW 20: Due 12/10	Napoleon Dynamite	

Problem 1. (10pt) Determine if the system of equations below has a solution. If it does, find it; if not, explain why.

$$x + y = 5$$
$$x - y = 9$$

Problem 2. (10pt) Determine if the system of equations below has a solution. If it does, find it; if not, explain why.

$$15x - 6y = 10$$
$$-5x + 2y = -8$$

Problem 3. (10pt) Determine if the system of equations below has a solution. If it does, find it; if not, explain why.

$$5x + 3y = 7$$
$$3x - 2y = -11$$

Problem 4. (10pt) Determine if the system of equations below has a solution. If it does, find it; if not, explain why.

$$5x - 6y = 3$$

$$2x + 3y = 3$$