P.S. #5.5 - Solving Systems of Equations by Elimination

Name: _____ Class: _____

Directions: Solve the following systems of equations by elimination. The answers are on the back, which means you must persevere and correct your work!

1.)
$$3y - x = 2$$
$$3y + x = 16$$

2.)
$$7a + b = 10$$
$$2a + 3b = -8$$

3.)
$$2h + 5k = 4$$
$$7h + 15k = 9$$

Check #3

4.)
$$3x - 8y = 13$$
$$4x - 5y = 6$$

5.)
$$-3y + 4x = 12$$
$$x + 2y = 14$$

6.) Solve the system of equations using *substitution*. **Check the answer**.

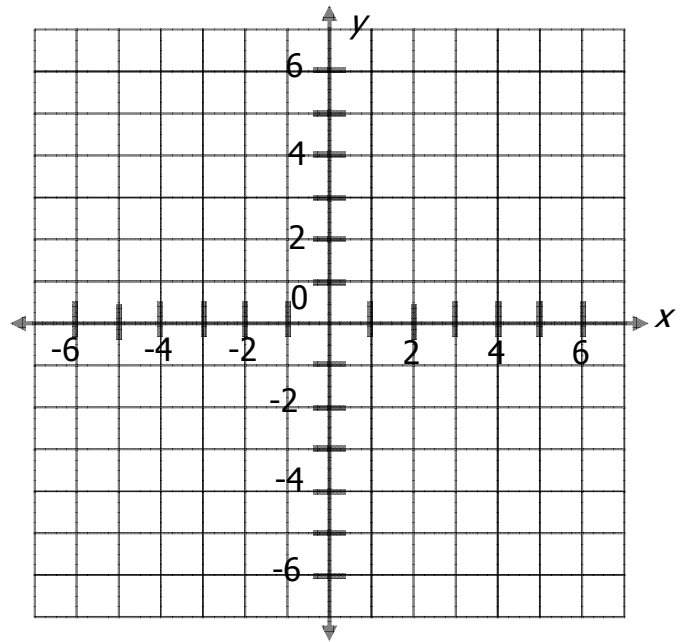$$3x - y = 11$$
$$x + y = 5$$

7.) Solve the following system of equations *graphically*.

$$x + 3y = 12$$
$$x = 6$$

8.) Solve the following system of equations *using any method you would like*. **Check the answer.**

$$2m - n = 5$$
$$2m + n = 3$$

Answers:

1.) (7,3)   2.) (2,-4)   3.) (-3,2)   4.) (-1,-2)   5.) (6,4)   6.) (4,1)   7.) (6,2)   8.) (2,-1)