Name: _____

Solving Systems of Equations by Elimination Homework

Solve each of the following using the method of elimination:

1.
$$x - y = 7$$

 $2x + y = -10$

2.
$$2x + y = 11$$

 $x + y = 9$

3.
$$3x + y = 1$$

 $2x + 3y = -11$

4.
$$x + y = 1$$

 $3x - y = 11$

5.
$$9x + 2y = 2$$

 $4x + y = 1$

6.
$$2x + 3y = 8$$

 $5x - y = 3$

7.
$$5x - 3y = -14$$

 $3x + 2y = 3$

8.
$$9x + 6y = 12$$

 $8x + 3y = 13$

9.
$$3x + 2y = 6$$

 $2x - 3y = 17$

Find and describe the error:

10.

$$5x+8y=1$$

 $2x-8y=6$
 $7x=7$
 7
 7

$$-2(1)+8y=-6
2+8y=-6
-2 -2
8y=-8
8 8
y=-1
(1,-1)$$

11.

$$3x-4y=-5
-3x-6y=-5
-2y=-10
-2 -2
x=5$$

$$3x-4(5)=-53x-20=-5+20 +203x=153x=5(5, 5)$$

Review

Determine if (-1, 3) is a solution to the following system of equations. Answer yes or no.

12.
$$2x + 2y = 4$$

 $3x - y = -6$

Determine whether the following systems have no solution, one solution, or infinitely many solutions. You may use the graph provided if needed.

13.
$$y = 5x - 4$$

$$y = 5x - 5$$

A. No solution

B. One solution

C. Infinitely many solutions



$$\dot{y} = -x + 3$$

A. No solution

B. One solution

C. Infinitely many solutions

