Name: _____

_____ Date: _____

Solving Systems of Equations by Elimination Homework

Solve each of the following using the method of elimination:

1.
$$2x + y = 11$$

 $x + y = 9$

2.
$$x-y=7$$

 $2x+y=-10$

3.
$$3x + y = 1$$
$$2x + 3y = -11$$

4.
$$2x + 4y = 7$$
$$5x - y = 1$$

5.
$$2x + 3.5y = 1$$
$$5x + 3y = -9$$

6.
$$3x + 2y = 6$$
$$2x - 3y = 17$$

Solve the following system using elimination. Explain each of your steps (Work & reason)

7.
$$2x + 5y = -2$$

$$5x - 2y = 24$$

Find all the errors then correct the problem:

8.
$$5x + 8y = 1$$
$$-2x + 8y = -6$$

$$5x + 8y = 1$$
$$-2x + 8y = -6$$

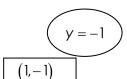
$$\frac{7x}{7} = \frac{7}{7}$$

$$x = 1$$

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

$$-2+8y=-6$$

$$8y = -8$$



9.
$$3x - 4y = -5$$
$$-3x - 6y = -5$$

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

$$\frac{-2y}{-2} = \frac{-10}{-2}$$

$$y = 5$$

$$3x - 4(5) = -5$$

$$3x - 20 = -5$$

$$3x = 15$$

$$x = 5$$

Correctly simplify the following problems WITHOUT a calculator: