Name: _____

Solving Linear Systems Using Elimination

We have learned how to solve systems of linear equations by graphing and by substitution. There is a third method that we will explore called elimination. In the elimination method, you can add or subtract equations to get rid of (or eliminate!) a variable.

Sometimes it is easy to see which variable can be eliminated. For example, consider the system:

5x - 6y = -323x + 6y = 48

answer: _____

Sometimes, you have to multiply one or both of the equations by a nonzero number to make the coefficients work out. For example, consider the system

2x + 5y = -2210x + 3y = 22 Try some on your own...

1.
$$2x - 3y = 61$$

 $2x + y = -7$

2. 2x + 5y = 176x - 5y = -9

#1 answer: _____

#2 answer: _____

3. 3x + 6y = -6-5x - 2y = -14

#3 answer: _____