Lesson 3.4- SWBAT solve systems of equations by elimination. Kick off- Take out your homework and answer the following questions.

1) Solve the system of equations by elimination.

1) Solve and check the system of equations by elimination: (-2x - 9y = -25)2 (-4x - 9y = -23)

Elimination Method (Addition) for Solving a System of Equations:

- 1) Choose which variable to eliminate
- 2) Multiply the equation(s) by a constant (number) that will make coefficients that are additive
- 3) Add the two new equations!
- 4) Solve for the variable.
- 5) Substitute in the value of that variable and solve to find the other variable.
- 6) Check BOTH equations with the order pair that you found!

3) Solve and check the system of equations.
$$y = -3x + 5$$

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

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

$$5x + 12x - 20 = -3$$

$$-3x + 5$$

4) Solve and check the system of equations (8x + y = -16)

2) Solve and check the system of equations by elimination: -6/x + 5y = 1

6 x + 4y=-10

6x + 4(-1) = -10 6x - 44 = -10 6x = -6 6x = -6

- 5) Solve and check the system of equations. 5x + 4y = -143x + 6y = 6
- 6) Solve and check the system of equations. -3x 3y = 3y = -5x - 17