Algebra 1- Week 12 Homework

**Monday-**

Solve the systems below using elimination:

1. 7x − 9y = 5

4x + 9y = 17

**Tuesday-**

2. -8x + 2y = -2

 -6x + 2y = 0

Solve the systems below using elimination:

1. 3x – 4y = 2

2x – 4y = – 4

Solution: ( , )

1. 4x + 6y = 20

 – 2x + 4y = 4

Solution: ( , )

**Wednesday-** No class! No homework! Catch up on previous work.

**Thursday-**

Solve the systems below using elimination:

1. 16x − 10y = 10

−8x − 6y = 6

Solution: ( , )

1. 5x − 10y = −10

4x + 8y = 24

Solution: ( , )

**Friday-**

Finish partner activity handout if didn’t during class!

**\*\*\*Test next week!!! -**

Test review! Study for test!!! Topics on test:

1. **Graphing Linear Systems of Equations**: Graph both equations in y = mx + b format (m=slope, rise/run; b=y-intercept, start value). One solution- where they intersect; no solutions- parallel lines, will never intersect; infinite solutions- same  exact line.
2. **Solving Linear Systems of Equations with Substitution**: Take one equation in the system and replace a variable in the other equation with itself. (Ex: y = 2x+1 and 2x + 4y = 14 ---> 2x + 4(2x + 1) = 14)
3. **Solving Linear Systems of Equations with Elimination:** Eliminate a variable (x or y). In order to do so, the coefficient MUST form a zero pair when the equations are added or subtracted. You may need to multiply the entire equation by a constant in order to make a zero pair. (Ex: x + y = 14 and 2x - y = 2, add them together (x + y = 14) + (2x - y = 1) ---> (x + 2x) + (y - y) = (14 + 1) ---> 3x = 15 ---> x = 5)
4. **Systems of Equations: Real World Applications:** Write two equations from a scenario either in slope -intercept form (y = mx + b, where m = slope / constant rate of change / "per", and b = start value) or in standard form (Ax + By = C, where C = total, and A and B = the values being added). Then using one of our methods to solve a system of equations (graphing, substitution, or elimination).