Name: _____ Date: _____ Block: _____

Algebra 1- Week 12 Homework

**Monday-**
Solve the systems below using elimination:
   1.  $7x - 9y = 5$              2.  $-8x + 2y = -2$
       $4x + 9y = 17$                 $-6x + 2y = 0$

**Tuesday-**
Solve the systems below using elimination:

   1.  $3x - 4y = 2$             2.  $4x + 6y = 20$
       $2x - 4y = -4$                $-2x + 4y = 4$
       Solution: (   ,   )          Solution: (   ,   )

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

**Thursday-**
Solve the systems below using elimination:

   1.  $16x - 10y = 10$          2.  $5x - 10y = -10$
       $-8x - 6y = 6$                $4x + 8y = 24$
       Solution: (   ,   )          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).

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