BECA / Huson / 10.3 Geometry Name:

5 December 2018

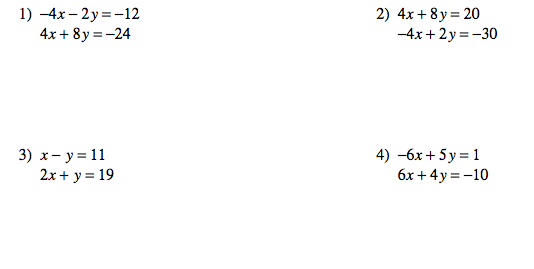
**Classwork 3.4: Solving Systems of Equations Using Elimination**

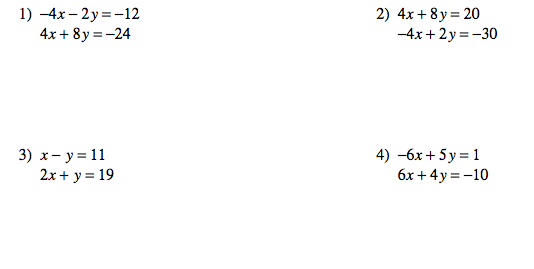
When equations are written in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ form (Ax + By = C), \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the most efficient method to use to solve.

*\*Goal to Eliminate EITHER variable: \_\_\_\_\_\_\_\_\_\_\_\_ coefficients/variable (4x & 4x)*

*\_\_\_\_\_\_\_\_\_\_\_\_ signs (+/-)*

Solve the following systems of equations using the Elimination Method:



Solution: \_\_\_\_\_\_\_\_\_\_\_\_ Solution: \_\_\_\_\_\_\_\_\_\_\_\_

Solution: \_\_\_\_\_\_\_\_\_\_\_\_ Solution: \_\_\_\_\_\_\_\_\_\_\_\_

**LEVEL 2 - EXAMPLE**:

5) -4x + 9y = 9 → 6) \_\_\_ (-7x + y = -19) →

\_\_\_ ( x - 3y = -6 ) → -2x + 3y = -19 →

Solution: \_\_\_\_\_\_\_\_\_ Solution: \_\_\_\_\_\_\_\_\_\_

7) \_\_\_\_ ( -3x + 7y = -16) → 8) 16x - 10y = 10

-9x + 5y = 16 -8x - 6y = 6

Solution: \_\_\_\_\_\_\_\_\_\_\_\_ Solution: \_\_\_\_\_\_\_\_\_\_\_\_

**\*Challenge**: What would you have to manipulate in order to “eliminate” a variable in the following system?

3x - 2y = 2

5x - 5y = 1

Solution: \_\_\_\_\_\_\_\_\_\_\_\_

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**Homework 3.4: Solving Systems of Equations Using Elimination**

