Name: _____   Date: _____ Block: _____

9.2 Solving Linear Systems by Elimination

<u>**Bell Work**</u>

For what values of the coefficients *a* and *b* is the ordered pair (3, -3) the solution to the linear system below?

ax + by = -15

2ax – 3by = 0

<u>**Vocabulary**</u>

- _____ method: add or _____ the equations to eliminate one variable and solve for the other variable.

<u>Story Problem:</u> The sum of two numbers is -22. The difference of the two numbers is 8. What are the two numbers?

<u>LET STATEMENTS</u>	<u>SYSTEM</u>

<u>SENTENCE</u>

<u>Example 1:</u> Solve the following linear system of equations using elimination. Verify your answer.

2x + y = -7

x + y = -4

Example 2: Solve the following linear system of equations using elimination. Verify your answer.

2x + 7y = 24

3x – 2y = -4

You try!

Story Problem: The sum of two numbers is 175 and their difference is 1. What are the two numbers?

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HW: P. 488 # 1, 2, 4, & 5 (pick 1), 7, 8, 9, 10, 11, 13