

Name \_\_\_\_\_

## SYSTEM OF EQUATIONS-ELIMINATION #2

**Directions:** Solve each system of equations below by *eliminating* a variable from each system. In order to eliminate a variable, you will have to use multiplication or division to modify both equations.

*modified equations*

1)  $6x + 8y = 70$      $30x + 40y = 350$

$5x + 3y = 29$      $30x + 18y = 174$

$x = \underline{\hspace{2cm}}$      $y = \underline{\hspace{2cm}}$

*modified equations*

2)  $4x + 9y = 82$

$5x - 3y = 17$

$x = \underline{\hspace{2cm}}$      $y = \underline{\hspace{2cm}}$

*modified equations*

3)  $5x + 7y = 51$

$3x + 2y = 24$

$x = \underline{\hspace{2cm}}$      $y = \underline{\hspace{2cm}}$

4)  $10x + 5y = 85$

$5x + 2y = 34$

$x = \underline{\hspace{2cm}}$      $y = \underline{\hspace{2cm}}$

5)  $2x + 7y = 18$

$7x - 3y = 8$

$x = \underline{\hspace{2cm}}$      $y = \underline{\hspace{2cm}}$

6)  $8x + 3y = 81$

$9x + 2y = 87$

$x = \underline{\hspace{2cm}}$      $y = \underline{\hspace{2cm}}$

7)  $36x + 24y = 264$

$30x + 10y = 140$

$x = \underline{\hspace{2cm}}$      $y = \underline{\hspace{2cm}}$

8)  $6x - 8y = 36$

$8x - 3y = 48$

$x = \underline{\hspace{2cm}}$      $y = \underline{\hspace{2cm}}$

9)  $18x + 54y = 468$

$12x + 15y = 165$

$x = \underline{\hspace{2cm}}$      $y = \underline{\hspace{2cm}}$