

Name \_\_\_\_\_

**SYSTEM OF EQUATIONS-ELIMINATION #4**

**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)  $4x + 8y = 12$     $6x + 8y = 52$

$3x + 9y = 21$     $6x + 18y = 72$

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

*modified equations*

2)  $2x + 3y = 46$

$4x + 6y = 7$

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

*modified equations*

3)  $3x - 3y = -15$

$9x - y = 19$

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

4)  $10x + 1/2y = 16$

$5x + 2y = 29$

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

5)  $x + y = 5$

$7x + 7y = 35$

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

6)  $5x - 8y = -29$

$3x + 2y = -31$

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

7)  $-x + 10y = -63$

$10x - 10y = 180$

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

8)  $6x - 9y = 42$

$2x - 3y = 16$

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

9)  $-x - y = 6$

$-x - (-y) = 9$

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