

Name \_\_\_\_\_

### Solving Systems of Equations - Elimination

1.  $2x + 7y = 50$

$$2x - 3y = -10$$

2.  $x + 2y = 1$

$$4x - 2y = 34$$

3.  $9x + y = 101$

$$7x - y = 59$$

4.  $2x + 3y = 20$

$$4x + 7y = 48$$

5.  $-3x + 5y = 15$

$$6x - 10y = -20$$

6.  $5x - y = 40$

$$15x - 8y = 95$$

7.  $4x - 2y = -26$

$$-8x + y = 13$$

8.  $6x + 4y = 34$

$$5x - 6y = -65$$

9.  $6x + 9y = 12$

$$4x + 6y = 8$$

10.  $9x - 6y = -36$

$$12x - 3y = -78$$

11.  $10x + 6y = -22$

$$4x = 5y + 80$$

12.  $7y = 55 - 2x$

$$8x - 13y = -149$$

Name \_\_\_\_\_

### Solving Systems of Equations - Elimination Answers

1.  $2x + 7y = 50$

$$2x - 3y = -10$$

$(4, 6)$

2.  $x + 2y = 1$

$$4x - 2y = 34$$

$(7, -3)$

3.  $9x + y = 101$

$$7x - y = 59$$

$(10, 11)$

4.  $2x + 3y = 20$

$$4x + 7y = 48$$

$(-2, 8)$

5.  $-3x + 5y = 15$

$$6x - 10y = -20$$

*No Solution*

6.  $5x - y = 40$

$$15x - 8y = 95$$

$(9, 5)$

7.  $4x - 2y = -26$

$$-8x + y = 13$$

$(0, 13)$

8.  $6x + 4y = 34$

$$5x - 6y = -65$$

$(-1, 10)$

9.  $6x + 9y = 12$

$$4x + 6y = 8$$

*Infinitely Many Solutions*

10.  $9x - 6y = -36$

$$12x - 3y = -78$$

$(-8, -6)$

11.  $10x + 6y = -22$

$$4x = 5y + 80$$

$(5, -12)$

12.  $7y = 55 - 2x$

$$8x - 13y = -149$$

$(-4, 9)$