



Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Algebra 1 – Unit 5 – Systems of Equations (Challenge)

1.  $8x + 7y = 43$

$7x - 12y = -53$

2.  $11x + 5y = -96$

$12x - 5y = -42$

3.  $10x + 4y = -28$

$6x + 10y = -13$

4.  $5x + 6y = 47$

$8x + 7y = 62$

5.  $9x + 12y = -62$

$10x + 10y = -58$

6.  $8x + 8y = 93$

$7x - 8y = 57$

7.  $7x + 3y = 14$

$6x + 7y = 2$

8.  $5x + 5y = 18$

$8x + 3y = 23$



# Algebra 1 – Unit 5 – Systems of Equations (Challenge) – Answer Key

1.  $8x + 7y = 43$   
 $7x - 12y = -53$   
**(1, 5)**

2.  $11x + 5y = -96$   
 $12x - 5y = -42$   
**(-6, -6)**

3.  $10x + 4y = -28$   
 $6x + 10y = -13$   
**(-3.00, 0.50)**

4.  $5x + 6y = 47$   
 $8x + 7y = 62$   
**(3.31, 5.08)**

5.  $9x + 12y = -62$   
 $10x + 10y = -58$   
**(-2.53, -3.27)**

6.  $8x + 8y = 93$   
 $7x - 8y = 57$   
**(10.00, 1.62)**

7.  $7x + 3y = 14$   
 $6x + 7y = 2$   
**(2.97, -2.26)**

8.  $5x + 5y = 18$   
 $8x + 3y = 23$   
**(2.44, 1.16)**