



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

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

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

1.  $5x + 7y = 13$   
 $3x - 3y = -21$

2.  $7x + 6y = 43$   
 $5x - 3y = -13$

3.  $5x + 8y = -56$   
 $6x + 10y = -69$

4.  $6x + 3y = -2$   
 $4x - 12y = -22$

5.  $11x + 6y = -76$   
 $3x + 9y = -6$

6.  $7x + 4y = -20$   
 $12x + 6y = -33$

7.  $3x + 3y = 23$   
 $6x - 8y = 9$

8.  $10x + 10y = -10$   
 $5x - 8y = -31$



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

1.  $5x + 7y = 13$   
 $3x - 3y = -21$   
 **$(-3, 4)$**

2.  $7x + 6y = 43$   
 $5x - 3y = -13$   
 **$(1, 6)$**

3.  $5x + 8y = -56$   
 $6x + 10y = -69$   
 **$(-4.00, -4.50)$**

4.  $6x + 3y = -2$   
 $4x - 12y = -22$   
 **$(-1.07, 1.48)$**

5.  $11x + 6y = -76$   
 $3x + 9y = -6$   
 **$(-8, 2)$**

6.  $7x + 4y = -20$   
 $12x + 6y = -33$   
 **$(-2.00, -1.50)$**

7.  $3x + 3y = 23$   
 $6x - 8y = 9$   
 **$(5.02, 2.64)$**

8.  $10x + 10y = -10$   
 $5x - 8y = -31$   
 **$(-3, 2)$**