



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)