



Name: _____

Date: _____

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

$$\begin{aligned}1. \quad & 8x + 9y = -47 \\& 5x + 11y = -46\end{aligned}$$

$$\begin{aligned}2. \quad & 9x + 5y = 37 \\& 5x - 8y = -1\end{aligned}$$

$$\begin{aligned}3. \quad & 4x + 4y = -34 \\& 3x - 4y = -36\end{aligned}$$

$$\begin{aligned}4. \quad & 5x + 3y = 60 \\& 7x + 6y = 102\end{aligned}$$

$$\begin{aligned}5. \quad & 11x + 8y = -24 \\& 10x + 5y = -21\end{aligned}$$

$$\begin{aligned}6. \quad & 11x + 12y = -62 \\& 7x + 6y = -28\end{aligned}$$

$$\begin{aligned}7. \quad & 4x + 7y = 5 \\& 5x - 11y = -14\end{aligned}$$

$$\begin{aligned}8. \quad & 6x + 3y = 32 \\& 5x + 4y = 33\end{aligned}$$



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

1. $8x + 9y = -47$
 $5x + 11y = -46$
(-2.40, -3.09)

2. $9x + 5y = 37$
 $5x - 8y = -1$
(3, 2)

3. $4x + 4y = -34$
 $3x - 4y = -36$
(-10.00, 1.50)

4. $5x + 3y = 60$
 $7x + 6y = 102$
(6, 10)

5. $11x + 8y = -24$
 $10x + 5y = -21$
(-1.92, -0.36)

6. $11x + 12y = -62$
 $7x + 6y = -28$
(2, -7)

7. $4x + 7y = 5$
 $5x - 11y = -14$
(-0.54, 1.03)

8. $6x + 3y = 32$
 $5x + 4y = 33$
(3.22, 4.22)