



Name: _____

Date: _____

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

$$\begin{aligned}1. \quad 2x + 2y &= 0 \\4x - 6y &= -20\end{aligned}$$

$$\begin{aligned}5. \quad 4x + 4y &= -4 \\9x - 9y &= 99\end{aligned}$$

$$\begin{aligned}2. \quad 6x + 3y &= -39 \\2x + 4y &= -28\end{aligned}$$

$$\begin{aligned}6. \quad 5x + 7y &= 61 \\4x + 4y &= 44\end{aligned}$$

$$\begin{aligned}3. \quad 4x + 7y &= -20 \\3x - 6y &= 30\end{aligned}$$

$$\begin{aligned}7. \quad 8x + 8y &= 16 \\4x + 3y &= 3\end{aligned}$$

$$\begin{aligned}4. \quad 4x + 6y &= 52 \\3x + 7y &= 54\end{aligned}$$

$$\begin{aligned}8. \quad 4x + 4y &= 4 \\9x - 3y &= 33\end{aligned}$$



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

1. $2x + 2y = 0$
 $4x - 6y = -20$
(-2, 2)

5. $4x + 4y = -4$
 $9x - 9y = 99$
(5, -6)

2. $6x + 3y = -39$
 $2x + 4y = -28$
(-4, -5)

6. $5x + 7y = 61$
 $4x + 4y = 44$
(8, 3)

3. $4x + 7y = -20$
 $3x - 6y = 30$
(2, -4)

7. $8x + 8y = 16$
 $4x + 3y = 3$
(-3, 5)

4. $4x + 6y = 52$
 $3x + 7y = 54$
(4, 6)

8. $4x + 4y = 4$
 $9x - 3y = 33$
(3, -2)