



Name: _____

Date: _____

Fresh
Math

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

$$\begin{aligned}1. \quad & 4x + 4y = -12 \\& 7x + 9y = -21\end{aligned}$$

$$\begin{aligned}5. \quad & 10x + 4y = 5 \\& 9x - 3y = 18\end{aligned}$$

$$\begin{aligned}2. \quad & 12x + 12y = -68 \\& 4x + 4y = -23\end{aligned}$$

$$\begin{aligned}6. \quad & 3x + 9y = -85 \\& 9x + 12y = -105\end{aligned}$$

$$\begin{aligned}3. \quad & 8x + 4y = 10 \\& 4x - 3y = 2\end{aligned}$$

$$\begin{aligned}7. \quad & 4x + 6y = -15 \\& 3x - 6y = 10\end{aligned}$$

$$\begin{aligned}4. \quad & 11x + 12y = -158 \\& 5x - 10y = -10\end{aligned}$$

$$\begin{aligned}8. \quad & 4x + 11y = 73 \\& 5x + 11y = 72\end{aligned}$$



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

$$\begin{aligned}1. \quad & 4x + 4y = -12 \\& 7x + 9y = -21 \\& (-3, 0)\end{aligned}$$

$$\begin{aligned}5. \quad & 10x + 4y = 5 \\& 9x - 3y = 18 \\& (1.32, -2.05)\end{aligned}$$

$$\begin{aligned}2. \quad & 12x + 12y = -68 \\& 4x + 4y = -23 \\& (-4.00, -1.67)\end{aligned}$$

$$\begin{aligned}6. \quad & 3x + 9y = -85 \\& 9x + 12y = -105 \\& (1.67, -10.00)\end{aligned}$$

$$\begin{aligned}3. \quad & 8x + 4y = 10 \\& 4x - 3y = 2 \\& (0.95, 0.60)\end{aligned}$$

$$\begin{aligned}7. \quad & 4x + 6y = -15 \\& 3x - 6y = 10 \\& (-0.71, -2.02)\end{aligned}$$

$$\begin{aligned}4. \quad & 11x + 12y = -158 \\& 5x - 10y = -10 \\& (-10, -4)\end{aligned}$$

$$\begin{aligned}8. \quad & 4x + 11y = 73 \\& 5x + 11y = 72 \\& (-1, 7)\end{aligned}$$