

Solving Systems of Two Equations w/ Cramer's Rule Date_____ Period____

Use Cramer's Rule to solve each system.

1)
$$\begin{aligned}x - 5y &= -5 \\-4x - 2y &= 20\end{aligned}$$

2)
$$\begin{aligned}-x + 5y &= 2 \\x - 2y &= -2\end{aligned}$$

3)
$$\begin{aligned}2x + 2y &= 0 \\4x - y &= -20\end{aligned}$$

4)
$$\begin{aligned}3x - 4y &= 1 \\-5x + 2y &= 3\end{aligned}$$

5)
$$\begin{aligned}-x - y &= -1 \\3x + 3y &= 3\end{aligned}$$

6)
$$\begin{aligned}-5x + 5y &= 10 \\-2x + 2y &= -4\end{aligned}$$

7)
$$\begin{aligned}-x + 4y &= -2 \\-2x + 5y &= -4\end{aligned}$$

8)
$$\begin{aligned}-5x - 5y &= 25 \\-2x - 4y &= 16\end{aligned}$$

9)
$$\begin{aligned}4x + 4y &= -32 \\2x + 2y &= -16\end{aligned}$$

10)
$$\begin{aligned}7a - b &= -1 \\-4a - 2b &= -2\end{aligned}$$

11)
$$\begin{aligned}4r + s &= -14 \\-5r - 5s &= 25\end{aligned}$$

12)
$$\begin{aligned}x - 3y &= 5 \\-3x + 6y &= 8\end{aligned}$$

13)
$$\begin{aligned}6a + b &= -2 \\5a + 6b &= -2\end{aligned}$$

14)
$$\begin{aligned}2a - 3b &= -8 \\4a + 3b &= -34\end{aligned}$$

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Use Cramer's Rule to solve each system.

1)
$$\begin{aligned}x - 5y &= -5 \\-4x - 2y &= 20\end{aligned}$$

$$(-5, 0)$$

2)
$$\begin{aligned}-x + 5y &= 2 \\x - 2y &= -2\end{aligned}$$

$$(-2, 0)$$

3)
$$\begin{aligned}2x + 2y &= 0 \\4x - y &= -20\end{aligned}$$

$$(-4, 4)$$

4)
$$\begin{aligned}3x - 4y &= 1 \\-5x + 2y &= 3\end{aligned}$$

$$(-1, -1)$$

5)
$$\begin{aligned}-x - y &= -1 \\3x + 3y &= 3\end{aligned}$$

$$\text{Infinitely many solutions}$$

6)
$$\begin{aligned}-5x + 5y &= 10 \\-2x + 2y &= -4\end{aligned}$$

$$\text{No solution.}$$

7)
$$\begin{aligned}-x + 4y &= -2 \\-2x + 5y &= -4\end{aligned}$$

$$(2, 0)$$

8)
$$\begin{aligned}-5x - 5y &= 25 \\-2x - 4y &= 16\end{aligned}$$

$$(-2, -3)$$

9)
$$\begin{aligned}4x + 4y &= -32 \\2x + 2y &= -16\end{aligned}$$

$$\text{Infinitely many solutions}$$

10)
$$\begin{aligned}7a - b &= -1 \\-4a - 2b &= -2\end{aligned}$$

$$(0, 1)$$

11)
$$\begin{aligned}4r + s &= -14 \\-5r - 5s &= 25\end{aligned}$$

$$(-3, -2)$$

12)
$$\begin{aligned}x - 3y &= 5 \\-3x + 6y &= 8\end{aligned}$$

$$\left(-18, -\frac{23}{3}\right)$$

13)
$$\begin{aligned}6a + b &= -2 \\5a + 6b &= -2\end{aligned}$$

$$\left(-\frac{10}{31}, -\frac{2}{31}\right)$$

14)
$$\begin{aligned}2a - 3b &= -8 \\4a + 3b &= -34\end{aligned}$$

$$(-7, -2)$$