

## Solving Systems of Two Equations w/ Cramer's Rule Date \_\_\_\_\_ Period \_\_\_\_\_

Use Cramer's Rule to solve each system.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## Solving Systems of Two Equations w/ Cramer's Rule Date \_\_\_\_\_ Period \_\_\_\_\_

Use Cramer's Rule to solve each system.

1)  $x - 5y = -5$   
 $-4x - 2y = 20$

$(-5, 0)$

2)  $-x + 5y = 2$   
 $x - 2y = -2$

$(-2, 0)$

3)  $2x + 2y = 0$   
 $4x - y = -20$

$(-4, 4)$

4)  $3x - 4y = 1$   
 $-5x + 2y = 3$

$(-1, -1)$

5)  $-x - y = -1$   
 $3x + 3y = 3$

Infinitely many solutions

6)  $-5x + 5y = 10$   
 $-2x + 2y = -4$

No solution.

7)  $-x + 4y = -2$   
 $-2x + 5y = -4$

$(2, 0)$

8)  $-5x - 5y = 25$   
 $-2x - 4y = 16$

$(-2, -3)$

9)  $4x + 4y = -32$   
 $2x + 2y = -16$

Infinitely many solutions

10)  $7a - b = -1$   
 $-4a - 2b = -2$

$(0, 1)$

11)  $4r + s = -14$   
 $-5r - 5s = 25$

$(-3, -2)$

12)  $x - 3y = 5$   
 $-3x + 6y = 8$

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

13)  $6a + b = -2$   
 $5a + 6b = -2$

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

14)  $2a - 3b = -8$   
 $4a + 3b = -34$

$(-7, -2)$