

Cramers Rule

Date _____ Period _____

Use Cramer's Rule to solve each system.

1)
$$\begin{aligned} -2r - 2s &= 12 \\ -3r - 4s &= -3 \end{aligned}$$

2)
$$\begin{aligned} 5x - 5y &= -30 \\ x - y &= -6 \end{aligned}$$

3)
$$\begin{aligned} -4x - 3y &= -14 \\ 4x + 3y &= 23 \end{aligned}$$

4)
$$\begin{aligned} 6x + y &= -1 \\ 5x + 4y &= 1 \end{aligned}$$

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

6)
$$\begin{aligned} 4a + 2b &= 24 \\ -3a - 6b &= -18 \end{aligned}$$

7)
$$\begin{aligned} -3r + 2s + t &= -5 \\ 2r - 6s + 2t &= -4 \\ -4r + s &= 5 \end{aligned}$$

8)
$$\begin{aligned} -x - 2y - 2z &= 2 \\ -2y + 6z &= 14 \\ 4y + z &= -2 \end{aligned}$$

9)
$$\begin{aligned} 4x - y - 2z &= 8 \\ 6x + 2y + z &= 5 \\ -5y &= -10 \end{aligned}$$

10)
$$\begin{aligned} x + 4y + 5z &= -30 \\ x + 3y &= -9 \\ -6x - 2y + 3z &= 26 \end{aligned}$$

11)
$$\begin{aligned} 4x + y + 6z &= -14 \\ x - 6y + 5z &= -4 \\ -2x - 5y &= 4 \end{aligned}$$

12)
$$\begin{aligned} 4a + b - 5c &= -16 \\ -3a + c &= 16 \\ 5a - 3b + 3c &= -30 \end{aligned}$$