

Cramer's Rule



Overview of problems



Example Set: A

Use Cramer's Rule to solve the system

$$\begin{cases} x + y = -2 \\ 3x + y = 4 \end{cases}$$

$$\begin{cases} 3x + 5y = 1 \\ 4x + 2y = 6 \end{cases}$$



Example Set: B

Use Cramer's Rule to solve the system

$$\begin{cases} 2x + y = 15 \\ 5x - 6y = -22 \end{cases}$$

$$\begin{cases} 4x - 4y = -1 \\ 8x - 6y = -1 \end{cases}$$



Example Set: C

Use Cramer's Rule to solve the system

$$\begin{cases} -x - 2y + z = 7 \\ 4x + y - z = -21 \\ 2x - 3y - z = -7 \end{cases}$$

Cramer's Rule



Overview of problems- KEY



Example Set: A

Use Cramer's Rule to solve the system

$$\begin{cases} x + y = -2 \\ 3x + y = 4 \end{cases}$$

$(3, -5)$

$$\begin{cases} 3x + 5y = 1 \\ 4x + 2y = 6 \end{cases}$$

$(2, -1)$



Example Set: B

Use Cramer's Rule to solve the system

$$\begin{cases} 2x + y = 15 \\ 5x - 6y = -22 \end{cases}$$

(4, 7)

$$\begin{cases} 4x - 4y = -1 \\ 8x - 6y = -1 \end{cases}$$

($\frac{1}{4}$, $\frac{1}{2}$)



Example Set: C

Use Cramer's Rule to solve the system

$$\begin{cases} -x - 2y + z = 7 \\ 4x + y - z = -21 \\ 2x - 3y - z = -7 \end{cases}$$

$$(-5, -1, 0)$$