

Matrices

Name: _____

Date: _____

Cramer's Rules

1

$$4x - 3y + z = -10$$

$$2x + y + 3z = 0$$

$$-x + 2y - 5z = 17$$

2

$$-y - 2z = -8$$

$$x + 3z = 2$$

$$7x + y + z = 0$$

3

$$-2x + y + z = 4$$

$$-4x + 2y - z = 8$$

$$-6x - 3y + z = 0$$

4

$$x + y - z = 6$$

$$3x - 2y + z = -5$$

$$x + 3y - 2z = 14$$

5

$$x + y - z = -2$$

$$2x - y + 2z = 0$$

$$x - 2y + 3z = 1$$

6

$$3x - 2y + z = 2$$

$$4x + 3y - 2z = 4$$

$$5x - 3y + 3z = 8$$

7

$$x + y + z = 6$$

$$x - y + z = 2$$

$$2x - y + 3z = 6$$

8

$$x + 4y - 2z = 3$$

$$x + 3y + 7z = 1$$

$$2x + 9y + z = 8$$

9

$$2x + 3y - 5z = 1$$

$$x + y - z = 2$$

$$2y + z = 8$$

10

$$x - 2y + 3z = 0$$

$$3x + y - 2z = 0$$

$$2x - 4y + 6z = 0$$

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Cramer's Rules

1

$$\begin{aligned}4x - 3y + z &= -10 \\2x + y + 3z &= 0 \\-x + 2y - 5z &= 17\end{aligned}$$

(1, 4, -2)

2

$$\begin{aligned}-y - 2z &= -8 \\x + 3z &= 2 \\7x + y + z &= 0\end{aligned}$$

(-1, 6, 1)

3

$$\begin{aligned}-2x + y + z &= 4 \\-4x + 2y - z &= 8 \\-6x - 3y + z &= 0\end{aligned}$$

(-1, 2, 0)

4

$$\begin{aligned}x + y - z &= 6 \\3x - 2y + z &= -5 \\x + 3y - 2z &= 14\end{aligned}$$

(1, 3, -2)

5

$$\begin{aligned}x + y - z &= -2 \\2x - y + 2z &= 0 \\x - 2y + 3z &= 1\end{aligned}$$

No Solution

6

$$\begin{aligned}3x - 2y + z &= 2 \\4x + 3y - 2z &= 4 \\5x - 3y + 3z &= 8\end{aligned}$$

(1, 2, 3)

7

$$\begin{aligned}x + y + z &= 6 \\x - y + z &= 2 \\2x - y + 3z &= 6\end{aligned}$$

(4, 2, 0)

8

$$\begin{aligned}x + 4y - 2z &= 3 \\x + 3y + 7z &= 1 \\2x + 9y + z &= 8\end{aligned}$$

(-5, 2, 0)

9

$$\begin{aligned}2x + 3y - 5z &= 1 \\x + y - z &= 2 \\2y + z &= 8\end{aligned}$$

(1, 3, 2)

10

$$\begin{aligned}x - 2y + 3z &= 0 \\3x + y - 2z &= 0 \\2x - 4y + 6z &= 0\end{aligned}$$

No Solution