

Matrices

Name: _____

Date: _____

Cramer's Rules

1

$$4x + 8y + 2z = 16$$

$$3x + 2y + 6z = 18$$

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

$$(18, -6, -4)$$

2

$$8x + 2y + 4z = 16$$

$$6x + 3y + z = 12$$

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

3

$$5x + 5y + 10z = 15$$

$$2x + 7y + z = 14$$

$$4x + 2y + 8z = 16$$

4

$$7x + 2y + 2z = 7$$

$$3x + 9y + 3z = 3$$

$$4x + y + 4z = 4$$

5

$$6x + 5y + 3z = 10$$

$$4x + 3y + 2z = 8$$

$$8x + 2y + 2z = 16$$

6

$$6x + 2y + z = 12$$

$$5x + y + 5z = 10$$

$$9x + 2y + 9z = 18$$

7

$$5x + 2y + z = 7$$

$$7x + 2y + 3z = 21$$

$$5x + y + 6z = 3$$

8

$$3x + 4y + 4z = 12$$

$$2x + 6y + 4z = 8$$

$$3x + 3y + 9z = 12$$

9

$$8x + 2y + 2z = 12$$

$$6x + 4y + 2z = 8$$

$$4x + 4y + 2z = 16$$

10

$$8x + 4y + 2z = 14$$

$$6x + y + 4z = 10$$

$$5x + 2y + 2z = 10$$

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Cramer's Rules

1

$$\begin{aligned}4x + 8y + 2z &= 16 \\3x + 2y + 6z &= 18 \\3x + 6y + 3z &= 6\end{aligned}$$

(18, -6, -4)

2

$$\begin{aligned}8x + 2y + 4z &= 16 \\6x + 3y + z &= 12 \\4x + 2y + z &= 8\end{aligned}$$

(2, 0, 0)

3

$$\begin{aligned}5x + 5y + 10z &= 15 \\2x + 7y + z &= 14 \\4x + 2y + 8z &= 16\end{aligned}$$

(17, -2, -6)

4

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

(1, 0, 0)

5

$$\begin{aligned}6x + 5y + 3z &= 10 \\4x + 3y + 2z &= 8 \\8x + 2y + 2z &= 16\end{aligned}$$

(1, -4, 8)

6

$$\begin{aligned}6x + 2y + z &= 12 \\5x + y + 5z &= 10 \\9x + 2y + 9z &= 18\end{aligned}$$

(2, 0, 0)

7

$$\begin{aligned}5x + 2y + z &= 7 \\7x + 2y + 3z &= 21 \\5x + y + 6z &= 3\end{aligned}$$

(13, -26, -6)

8

$$\begin{aligned}3x + 4y + 4z &= 12 \\2x + 6y + 4z &= 8 \\3x + 3y + 9z &= 12\end{aligned}$$

(4, 0, 0)

9

$$\begin{aligned}8x + 2y + 2z &= 12 \\6x + 4y + 2z &= 8 \\4x + 4y + 2z &= 16\end{aligned}$$

(-4, -6, 28)

10

$$\begin{aligned}8x + 4y + 2z &= 14 \\6x + y + 4z &= 10 \\5x + 2y + 2z &= 10\end{aligned}$$

(-8, 14, 11)