

Matrices

Name: _____

Date: _____

Cramer's Rules

1

$$3x + 10y = 30$$

$$8x + 2y = 6$$

2

$$15x + y + 7z = 105$$

$$3x + 5y + z = 15$$

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

3

$$16x + y + 6z = 96$$

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

$$4x + y + 8z = 32$$

4

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

$$3x - 3y = 0$$

5

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

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

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

6

$$-6x + 3y = -9$$

$$-8x + 2y = 6$$

7

$$6x + 2y = 12$$

$$7x + 2y = 14$$

8

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

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

9

$$17x + 3y + 2z = 51$$

$$7x + 4y + 3z = 12$$

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

10

$$8x + 9y = 72$$

$$2x + 9y = 18$$

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Cramer's Rules

1

$$\begin{aligned}3x + 10y &= 30 \\8x + 2y &= 6\end{aligned}\quad \underline{(0, 3)}$$

2

$$\begin{aligned}15x + y + 7z &= 105 \\3x + 5y + z &= 15 \\7x + y + 3z &= 21\end{aligned}\quad \underline{(-51, 9, 123)}$$

3

$$\begin{aligned}16x + y + 6z &= 96 \\4x + y + 4z &= 16 \\4x + y + 8z &= 32\end{aligned}\quad \underline{(6, -24, 4)}$$

4

$$\begin{aligned}-8x + 9y &= -2 \\3x - 3y &= 0\end{aligned}\quad \underline{(-2, -2)}$$

5

$$\begin{aligned}3x - 2y + z &= 2 \\4x + 3y - 2z &= 4 \\5x - 3y + 3z &= 8\end{aligned}\quad \underline{(1, 2, 3)}$$

6

$$\begin{aligned}-6x + 3y &= -9 \\-8x + 2y &= 6\end{aligned}\quad \underline{(-3, -9)}$$

7

$$\begin{aligned}6x + 2y &= 12 \\7x + 2y &= 14\end{aligned}\quad \underline{(2, 0)}$$

8

$$\begin{aligned}-4x + 6y &= -10 \\-5x - 2y &= -3\end{aligned}\quad \underline{(1, -1)}$$

9

$$\begin{aligned}17x + 3y + 2z &= 51 \\7x + 4y + 3z &= 12 \\10x + 2y + z &= 5\end{aligned}\quad \underline{(5, -56, 67)}$$

10

$$\begin{aligned}8x + 9y &= 72 \\2x + 9y &= 18\end{aligned}\quad \underline{(9, 0)}$$