



Cramer's Rule in Three Variables

Version 1

Name: _____

Date: _____

Score: _____

Direction: Solve each system of equations using Cramer's Rule.

$$1) \begin{cases} x + 2y + 3z = 4 \\ -x - y + z = -1 \\ 2x + y - 2z = 1 \end{cases}$$

$$2) \begin{cases} 5x - 2y = 0 \\ -x + 2y - 4z = 1 \\ -3x + y + 2z = 5 \end{cases}$$



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$$1) \begin{cases} x + 2y + 3z = 4 \\ -x - y + z = -1 \\ 2x + y - 2z = 1 \end{cases}$$

$$x = \frac{1}{2}, y = 1, z = \frac{1}{2}$$

$$2) \begin{cases} 5x - 2y = -7 \\ -x + 2y - 4z = 1 \\ -3x + y + 2z = 5 \end{cases}$$

$$x = -1, y = 1, z = \frac{1}{2}$$