Cramer's Rule in Three Variables

Version 2

Name: _____ **Date**: _____ **Score**: _____

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

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

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

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

$x = 1$, $y = -4$, $z = 4$

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

$x = -5$, $y = -2$, $z = 2$