

Instructions: Show all work. Use exact answers unless specifically asked to round. Answer all parts of each question.

1. Use Cramer's Rule to solve the system $\begin{cases} x + y + z = 0 \\ 2x - y + z = -1 \\ -x + 3y - z = -8 \end{cases}$. Be sure to write out all the matrices and their determinants used in the process.