

10.4: Systems of Linear Equations: Determinants

Attendance Quiz

1. Given that $\begin{vmatrix} -1 & 2 & -4 \\ 4 & -1 & -1 \\ 1 & 3 & 5 \end{vmatrix} = -92$, use Cramer's rule to find the numeric solution for z in the following system.

$$\begin{cases} -x + 2y - 4z &= -8 \\ 4x - y - z &= -12 \\ x + 3y + 5z &= 16 \end{cases}$$