

Solve each system, using augmented Matrices

$$1. \begin{cases} x + y + z = 2 \\ -x + 3y + 2z = 8 \\ 4x + y = 4 \end{cases}$$

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