The system of equations

$$x+y-z = 1$$

$$x-y+z = 1$$

$$x+y+z = 1$$

can be written in matrix terms as

$$\begin{pmatrix} 1 & 1 & -1 \\ 1 & -1 & 1 \\ 1 & 1 & 1 \end{pmatrix}$$

$$\begin{pmatrix} x \\ y \\ z \end{pmatrix}$$

$$=$$

$$\begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}.$$

$$\begin{pmatrix} 1 & 1 & -1 \\ 1 & -1 & 1 \\ 1 & 1 & 1 \end{pmatrix}$$