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Solve the system using matrix method

$$x + y + z = 6$$

$$2x - y - z = -3$$

$$3x - 5y + 7z = 14$$



$$AX = B$$

$$\begin{bmatrix} & & & \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} & & \end{bmatrix}$$

$$X = A^{-1}B$$

$$\begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} & & \end{bmatrix} \begin{bmatrix} & & \end{bmatrix}$$

$$\begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} & \\ & \\ & \end{bmatrix}$$

$$X =$$

$$Y =$$

$$Z =$$