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⁻¹B

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

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

X =   Y=   Z =