

41 (a) The matrix equation and solution are

$$AX = \begin{bmatrix} 3 & -1 & 1 \\ 5.8 & -2.1 & 0 \\ -1 & 0 & 2.9 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 4.9 \\ -3.8 \\ 3.8 \end{bmatrix}$$

(b) The solution can be expressed as $A^{-1}B \approx \begin{bmatrix} 9.262 \\ 27.39 \\ 4.504 \end{bmatrix}$. See *Figure 41*.

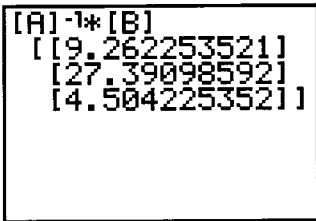


Figure 41