1. Solve the system by Gaussian Elimination Method (use elementary row operations to transform the augmented coefficient matrix to echelon form then use back substitution)

\[
\begin{align*}
3x_1 + x_2 - 3x_3 &= 6 \\
2x_1 + 7x_2 + x_3 &= -9 \\
2x_1 + 5x_2 &= -5
\end{align*}
\]