1. Find the solution set to each system of equations.

(a) \[
\begin{align*}
2x - y + z &= 5 \\
6x - 2z &= 1 \\
9y - z &= 10 \\
y + 5z &= 0
\end{align*}
\]

(b) \[
\begin{align*}
-3x + 2y - 2z &= 1 \\
3x - y + 7z &= -1
\end{align*}
\]

(c) \[
\begin{align*}
x + y + z + w &= 1 \\
x - y + z - w &= 0 \\
x + y - z - w &= 0 \\
x - y - z + w &= 0
\end{align*}
\]