## Problem 1

Give a geometric argument that the system

$$
\begin{aligned}
& 2 x+3 y+z=0 \\
& x-3 y+7 z=0
\end{aligned}
$$

has infinitely many solutions.

## Problem 2

Express the following system in the matrix form of $A X=B$ :

$$
\begin{array}{r}
2 x+3 y+z=4 \\
-x+3 y-2 z=0 \\
10 x+y-5 z=2
\end{array}
$$

