

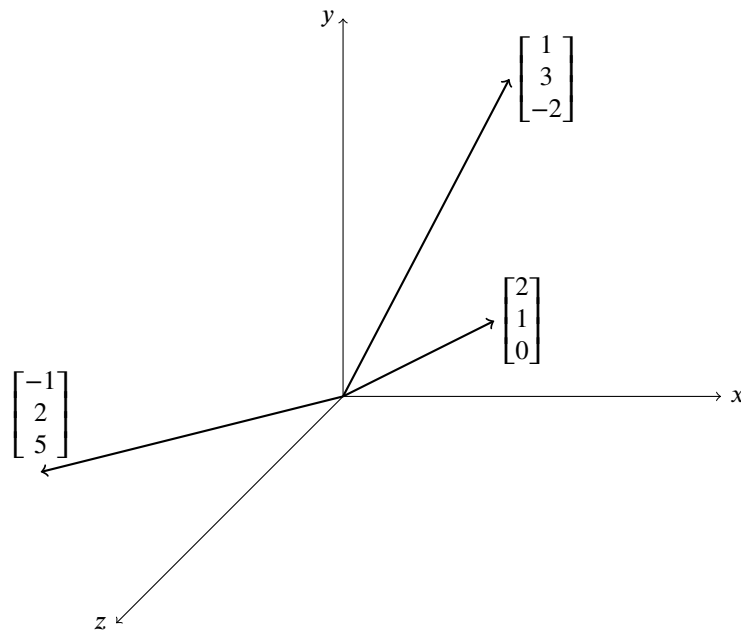
Student Number: XXXXXXXXXXName: Bryan Hoang1. (10 points) **Answer:**

Figure 1: Plot of the vectors that form the fundamental domain.

The volume of the fundamental domain formed by the basis vectors, V_L , can be found by computing the determinant of the matrix formed by the vectors. Therefore, the volume of the fundamental domain is

$$\begin{aligned} V_L &= \left| \det \begin{pmatrix} 1 & 3 & -2 \\ 2 & 1 & 0 \\ -1 & 2 & 5 \end{pmatrix} \right| \\ &= \boxed{35}. \end{aligned}$$