University of Central Punjab

Assignment # 3
Linear Algebra

1. **Decode the following Hill 2-cipher which was enciphered by the matrix** $\begin{bmatrix} 4 & 1 \\ 3 & 2 \end{bmatrix}$.

   SAKNOXAOJX

2. **Decode the Hill 3-cipher LQVGKE which was enciphered by the matrix key**

$$K = \begin{bmatrix} 1 & 2 & 4 \\ 0 & -1 & 2 \\ 0 & 1 & -1 \end{bmatrix}$$