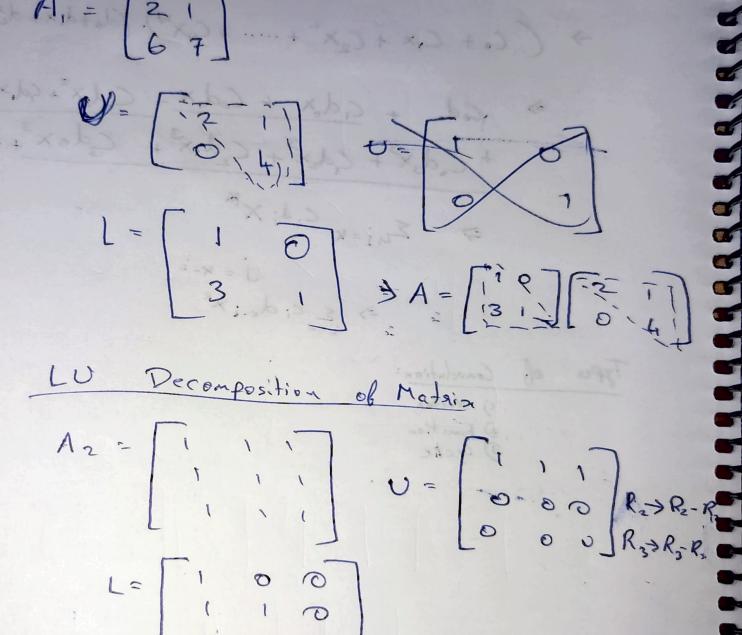
$$A_1 = \begin{bmatrix} 2 \\ 6 \end{bmatrix}$$



$$A_3 = \begin{bmatrix} 2 & -1 & 0 \\ -1 & 2 & -1 \\ 0 & -1 & 2 \end{bmatrix}$$

$$V = \begin{bmatrix} 2 & -1 & 0 \\ 0 & 3/2 & -1 \\ 0 & 0 & 1/3 \end{bmatrix} R_3 + 2/3 R_2 + \frac{R_1}{2}$$

$$A_3 = \begin{bmatrix} 1 & 0 & 0 \\ 1/2 & 1 & 0 \\ 0 & -2/3 & 1 \\ 0 & 0 & 1/3 \end{bmatrix}$$

 $0 \times 1 \times 2 = -2$ $\times 1 = \frac{1 - \times 2}{2} = \frac{1 + \times 2}{2}$