

Lab07ex1:

1. Random Matrix size 6x5 is

$$\begin{bmatrix} 2 & 4 & 6 & 2 & 2 \\ 2 & 2 & 3 & 4 & 2 \\ 6 & 6 & 1 & 3 & 4 \\ 2 & 4 & 4 & 5 & 1 \\ 6 & 2 & 6 & 5 & 2 \\ 1 & 6 & 1 & 2 & 1 \end{bmatrix}$$

-After Gaussian Elimination

$$\begin{bmatrix} 2 & 4 & 6 & 2 & 2 \\ 0 & -2 & -3 & 2 & 0 \\ 0 & 0 & -8 & -9 & -2 \\ 0 & 0 & 0 & 5.25 & 0.5 \\ 0 & 0 & 0 & 0 & -6.1 \\ 0 & 0 & 0 & 0 & 3 \end{bmatrix}$$

❖ Rank of matrix =5

❖ given column vectors is independent