MATLAB-1

1) Let
$$A = \begin{bmatrix} 2 & 0 & 1 & 1 \\ 0 & 3 & 0 & 0 \\ 0 & 0 & 4 & 0 \\ 2 & 1 & 0 & 5 \end{bmatrix}$$

- a) Find det(A)
- b) Find $B=A^{-1}$
- c) Find the inner product between fourth row of B and third column of B
- d) Find all eigenvalues of A then find the product of these numbers

2) Compute:

