

EENG428- Spring 2020

Homework 1

Consider the Matrices A , B and C given below

$$A = \begin{bmatrix} 8 & 7 & 9 \\ 6 & 4 & 5 \\ 3 & 2 & 1 \end{bmatrix} \quad B = \begin{bmatrix} 1 & 4 \\ 8 & 3 \end{bmatrix} \quad C = \begin{bmatrix} 2 & 3 \\ 8 & 7 \end{bmatrix}$$

- Find the inverse of the matrix A (by hand)
- Verify if $B^+ = B^{-1}$ and comment on your answer
- Verify the Expression $(B C)^{-1} = C^{-1} B^{-1}$

To be submitted as a hard copy in the Normal Lab Session period

Note: You may discuss the homework problems with your friends for exchanging general ideas, but you may not copy from one another. You may also not give any parts of your homework to other students to look at. Any students violating these rules or committing any other acts of academic dishonesty WILL be turned over to the disciplinary committee for disciplinary action.