

Assignment 4

Due date: 1 May 2024

TA: 盧禹丞 E814

1. (25%) Evaluate $\det(A)$, where $A = \begin{bmatrix} 3 & 3 & 0 & 5 \\ 2 & 2 & 0 & -2 \\ 4 & 1 & -3 & 0 \\ 2 & 10 & 3 & 2 \end{bmatrix}$.

2. (25%) Find the adjoint of the matrix $A = \begin{bmatrix} 8 & -9 \\ 0 & 1 \end{bmatrix}$.

3. (25%) Find the adjoint of the matrix $A = \begin{bmatrix} 1 & -1 & 0 \\ 5 & -4 & 3 \\ -2 & 0 & 1 \end{bmatrix}$.

4. (25%) Find the adjoint of the matrix $A = \begin{bmatrix} 1 & 0 & -1 & 1 \\ 2 & 5 & 0 & 3 \\ 0 & 1 & -1 & -2 \\ 0 & 3 & 0 & 1 \end{bmatrix}$.