C2-001_Practice 06

📅 Date	@2022년 9월 5일 오전 9:30
✎ Lecture Note	C2-001_Lecture_06_eigenvalue.pdf
✎ Practice (pdf)	
✎ Solution (pdf)	
≡ Topics	Lecture 06: Eigenvalue and Eigenvector
# Week	6

1. Find the eigenvalues and eigenvectors of the 2 x 2 matrix, $\mathbf{A} = \begin{bmatrix} 4 & 2 \\ 1 & 3 \end{bmatrix}$.

2. Compute the eigenspaces of $\mathbf{A} = \begin{bmatrix} 1 & 0 \\ 1 & 1 \end{bmatrix}$.

3. Compute the eigenspaces of $\mathbf{A} = \begin{bmatrix} -2 & 2 \\ 2 & 1 \end{bmatrix}$.

4. Compute all eigenspaces of $\mathbf{A} = \begin{bmatrix} 0 & -1 & 1 & 1 \\ -1 & 1 & -2 & 3 \\ 2 & -1 & 0 & 0 \\ 1 & -1 & 1 & 0 \end{bmatrix}$.