姓名:		葉均承	應數一線性代數
學號:	Quiz 16	考調	式日期: 2023/06/14

1. 請框出答案. 2. 不可使用手機、計算器,禁止作弊!

1. Find a Jordan canonical form and a Jordan basis for the matrix ${\cal A}$

$$A = \begin{bmatrix} i & 0 & 0 & 0 & 0 \\ 0 & i & 0 & 0 & 0 \\ 0 & 0 & 2 & 0 & 0 \\ 0 & 0 & 0 & 2 & 0 \\ 2 & 0 & -1 & 0 & 2 \end{bmatrix}$$

2. Find a Jordan canonical form and a Jordan basis for the matrix ${\cal A}$

$$A = \begin{bmatrix} 2 & 5 & 0 & 0 & -1 \\ 0 & 2 & 1 & 0 & 0 \\ 0 & 0 & 2 & 0 & 0 \\ 0 & 0 & 0 & 2 & 1 \\ 0 & 0 & 0 & 0 & 2 \end{bmatrix}$$