姓名:

葉均承

應數一線性代數

考試日期: 2025/06/04

學號: \_\_\_\_\_

Quiz 14

## 不可使用手機、計算器,禁止作弊!

1. Let A is a  $5 \times 5$  matrix.

$$A = \begin{bmatrix} 73 & 30 & 2 & 3 & 7 \\ -6 & 92 & 4 & -2 & 6 \\ -2 & 4 & 76 & 10 & 2 \\ -1 & 2 & -2 & 85 & 1 \\ 6 & 4 & -4 & 2 & 74 \end{bmatrix}$$

- (a) Find a Jordan canonical form and a Jordan basis for the given matrix.
- (b) Find the  $\det(A^{50}) =$ \_\_\_\_\_\_

Notice that