

## Section 9-3

1. (05/28) 課本: 7, 11

2. (05/28) Extra:

$$A = \begin{bmatrix} 13 & 8 & 8 \\ -1 & 7 & -2 \\ -1 & -2 & 7 \end{bmatrix}$$

Use the process in Schur's Lemma to find an unitary matrix  $U$  such that  $U^{-1}AU$  is an upper triangular.

3. (06/04) 課本: 13, 17, 19, 23