

THE CHINESE UNIVERSITY OF HONG KONG  
Department of Mathematics  
MATH2040A (First Term, 2022-23)  
Linear Algebra II  
Homework 10  
Due Date: Friday 2th December 2022  
**extended to Tuesday 6th December 2022**

All problems are selected from the textbook. You need to hand in your answers to the **Compulsory Part only**. Some of the problems in the Optional Part may be discussed in the tutorials. Submit your answers **in a single PDF file online via Blackboard**. The late submission will not be accepted. Reference solutions to both parts will be provided after grading.

**Compulsory Part**

Sec 6.4: 2(d), 7(a)(b), 9

Sec 6.5: 2(c), 7, 10

Sec 6.6: 6, 7(e)(f)(g)

**Optional Part**

Sec 6.4: 1, 7(c)(d), 8, 10, 12, 14

Sec 6.5: 1, 9, 12, 15, 16, 17

Sec 6.6: 1, 4, 7(a)(b)(c)(d), 10