

THE CHINESE UNIVERSITY OF HONG KONG  
Department of Mathematics  
MATH2040A (First Term, 2022-23)  
Linear Algebra II  
Homework 3  
Due Date: Friday 30th September 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 1.6: 12, 15, 23, 26, 30.

Sec 2.1: 14, 17, 21, 22, 35.

**Optional Part**

Sec 1.6: 4, 20, 29, 31, 34.

Sec 2.1: 12, 26, 27, 31, 32.