

**MATH 2040 Linear Algebra II**  
**2015-16 Term 2**  
**Practice Problem Set 4**

This is the suggested problems from the textbook for this week. You do not need to hand in your work but you are encouraged to try all the problems. Some of the problems will be discussed in the tutorials the following week.

You may assume the fields in the questions are either  $\mathbb{R}$  or  $\mathbb{C}$ .

Sec 4.3: #21

Sec 5.2: #4, 9, 10, 13, 18, 22

Sec 5.4: #1, 2, 3, 5, 6, 11, 13, 17, 18, 19, 25

Prove Theorem 5.10 in the textbook.