MATH1061/7861: Chapter 11 and 10 Practice Questions and Assignment 6

Chapter 11 (Sections 11.1–11.3,11.5) Practice Questions

The solutions to the Practice Questions are in the back of the textbook, so remember to check your solutions.

Section 11.1 Complete the following questions from pages 662–665 of the textbook. 1, 5, 8, 12, 15, 16, 19, 22, 24a, 25a, 28.

Section 11.2 Complete the following questions from pages 679–683 of the textbook. 1, 4, 6a, 9a, 12, 14, 19.

Section 11.3 Complete the following questions from pages 695–697 of the textbook. 4ac, 5a.

Section 11.5 Complete the following questions from page 721 of the textbook. 22,25,27.

Chapter 10 (Sections 10.1) Practice Questions

Section 10.1 Complete the following questions from pages 582–583 of the textbook. 1, 3a, 5ab, 8ab, 9a, 10a, 12, 13, 16, 17, 23, 25.

Assignment 6

Due by 5 pm Thursday 22nd September. Please place your assignment in the box marked MATH1061/7861 on level 4 of Building 67 (Maths Building). Please ensure that you attach a cover sheet to your assignment. You will find copies of the cover sheet at the back of this booklet.

Section 5.2, Prove that $A \subseteq B$ if and only if $A \cap B = A$
Section 5.3, pages 291; 20 and

1) Suppose $A = \{1, 2\}$ and $B = \{2, 3\}$. Find $\mathcal{P}(A \times B)$

2) a) Find $\mathcal{P}(\emptyset)$
   b) $\mathcal{P}(\mathcal{P}(\mathcal{P}(\emptyset)))$.

Section 11.1 pages 662–665; 4, 9, 21, 23