MATH 241 Homework 5
Due: Sunday 3/28 11:59pm to Moodle

Name: _____

- **Show all work. Incomplete solutions will be given no credit.**

- **You may prepare either hand-written or typed solutions, but please make sure that they are legible. Answers that cannot be read will be given no credit.**

- **Textbook problems are numbered according to the 9th edition.**

- **Read textbook Chapters 4.5 - 4.6 in the text before you start.**

Textbook Chapter 4

- Problem 35

- Problem 40

- Problem 44

- Problem 49

- Theoretical exercise 7

- Theoretical exercise 10. Hint: use $\binom{n+1}{k+1} = \binom{n}{k}\frac{n+1}{k+1}$

Optional: if you feel like more practice
These will not be graded, but you are welcome to discuss these with me during the office hour.

- Textbook Chapter 4 Problems: 37, 39, 41-42

- Textbook Chapter 4 Theoretical exercise: 8, 11, 13, 14