Introduction

These notes are intended to be a summary of the main ideas in course CS 310: *Mathematical Foundations of Computer Science.* I may keep working on this document as the course goes on, so these notes will not be completely finished until the end of the quarter.

The textbook for this course is Richard Johnsonbaugh:*Discrete Mathematics*, Fifth Edition, 2001, Prentice Hall. With few exceptions I will follow the notation in the book.

These notes contain some questions and "exercises" intended to stimulate the reader who wants to play a somehow active role while studying the subject. They are not homework nor need to be addressed at all if the reader does not wish to. I will recommend exercises and give homework assignments separately.

Finally, if you find any typos or errors, or you have any suggestions, please, do not hesitate to tell me. You may email me, or use the web form for feedback on the web pages for the course.

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