Complex Analysis - Math 440/508

Fall 2012

• Instructor: Malabika Pramanik

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• Office hours: To be announced.

• Web page: The course website is


Homework assignments and all relevant course information (such as changes to office hours if any, or solutions to homework problems if needed) will be posted here.

• Text: Complex Analysis by Elias Stein and Rami Shakarchi. The textbook is available online at UBC Library.

• Pre-requisite: Math 300 (or equivalent) and a score of 68% or higher in Math 320.

• Course outline: The UBC course description is as follows:
  ◦ The residue theorem
  ◦ The argument principle
  ◦ Conformal mapping
  ◦ The maximum modulus principle
  ◦ Harmonic functions
  ◦ Representation of functions by integrals, series, and products
  ◦ Other topics at the discretion of the instructor.

The core topics of this course are contained in Chapters 1, 2, 3 and 8 of the textbook. Time permitting, we will also consider other special topics.

• Lectures: Monday, Wednesday, Friday 11 am - 12 noon in Mathematics 105.

• Grading Policy: Homework problems will be posted regularly on the course website. In addition, there will be a takehome midterm and a takehome final. You total score will be a weighted average of your homework, midterm and final scores, with the breakdown as follows.
  
  Homework 50%
  Midterm 25%
  Final exam 25%