Math54: Discussion 1

Introduction to MATH 54 Structure

Section 123: MWF 4-5pm   Dwinelle 228
Section 117: MWF 5-6pm   Dwinelle 247

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Math Department

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Outline

Introduction

Discussion Session Logistics

Worksheet Problems

Introduction

- **Jiangyue Zheng**, she/her/hers
- Senior student majoring in Pure Math
- Personal Web-page: `https://jiangyue-zheng.github.io/`
  You can expect to find on this page: the discussion slides, my OH time slots, deadlines to HWs, etc.

Group Task - 5 mins

Please get into groups and then introduce yourselves to your group members.

- Your name, your pronouns, major(s) & Year at Berkeley
- What did you do in summer?

Discussion Session Timeline - MW

- 4:00pm - 4:10pm : respect Berkeley time, pick up worksheets
- 4:10pm - 4:40pm : group work on worksheets problems
- 4:40pm - 5:00pm : go over the solutions & answer questions

*For section 117, please automatically incorporate the above schedule into your course times.
*I try to go over the worksheet as much as I can, but in my experience, there usually isn't enough time to review the whole lectures.

Discussion Session Timeline - F

- 4:00pm - 4:10pm : respect Berkeley time, pick up worksheets
- 4:10pm - 4:35pm : group work on worksheets problems
- 4:35pm - 4:45pm : go over solutions to the worksheet
- 4:45pm - 5:00pm : quiz time!

*For section 117, please automatically incorporate the above schedule into your course times.
*Please come to class before 4:35pm (5:35pm).

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Some Reminders

- First quiz on this Friday in discussion sessions. It **may** cover simple syllabus questions, like *when are HWs due?*. Most importantly , please review Wednesday lecturer carefully. For T/F questions in quizzes, you also need to write short reasoning. You are allowed to bring cheat sheets.

- Generally, discussion slides will be posted or updated on my personal website around 8pm that day. Slides will include some partial solutions to the worksheet problems.

- HWs due on every Monday 11:59pm. You have to submit all problems and reasoning to get full credit. (Including the T/F questions!!!)

- If you have any other questions, please refer to syllabus on bCourses page first. DSP students need to send me an email before this Friday.

Worksheet 0: Introduction to MATH 54 Structure

- Please work on problems within your group.
- Every group should write solutions to (at least) one part of the worksheet on the board.
- For the *challenge* problem, one way to think is:

$$\varnothing \subseteq U \cap W,$$
$$U - W \subseteq U \subseteq U \cup W \subset V,$$
$$W - U \subseteq U \cup W,$$
$$U \cap W \subseteq U.$$