

Exam Strategies

So how do you prepare for the exam? First let's recall the exam information:

- December 13th, 2024 from 11:30am-1:30pm in Smith 120
- One standard sized index card allowed for notes
- The exam will be cumulative

With that in mind, remember the basics:

- Get plenty of sleep before waking up on Friday the 13th
- Make the index card with formulas that you don't have memorized
- Review the material of the entire semester, not just the weeks after midterm 2
- You have 2 hours to do the exam, so use all 2 hours
 - Don't turn in the problems early if you haven't done all of them
 - Reread every question carefully to make sure you're answering the right thing
- Go back and forth to solve problems in a timely manner
 - If you go in order 1, 2, 3... and are stuck, skip ahead and try others
 - Go back to any stuck problems only after trying and seeing every problem

These basics apply in general to exams. Specific tips for 230:

- Kamal will likely* make the exam a little easier than the worksheets
 - Plenty of multiple choice, T/F, and short answer, a few long answer or proofs
- If you can solve the worksheet problems yourself, you can do the exam yourself
- For every topic you struggled with on previous exams or quizzes, do the worksheet
 - Use incremental peeking strategy (described on next page)
 - Ask me for explanations if there's no solutions** or you're so lost that even the solutions document doesn't help
- Go back and do all of the quiz problems that you missed
 - Again, use incremental peeking
 - If you're still confused about a solution or you missed class**, email me

If you want to go all out, do every discussion worksheet, discussion quiz, and lecture quiz problem using the methods above. Then do every midterm problem you missed, and finally make sure you're good on subtopics that were not on quizzes or exams.

Above all else, remember that **you do not get better by just looking at the solutions**. You cannot become Messi by watching soccer, become Tiger Woods by watching golf, or Eminem by listening to rap. To improve your mathematical problem solving skills, you must solve more problems. There is no shortcut!

Before you walk into the exam room, watch this motivational video:

<https://www.youtube.com/watch?v=ISm4QZqN8cA>

*I don't create the exams, so you should not put 100% weight into this. In other words, don't assume the final will be exactly like the format of midterm 1 & 2

**Worksheets 8-14, Quiz 4-5 have solutions. For worksheets 1-7, quizzes 1-3, the solutions were gone over in detail in class.

Incremental Peeking

This is the method to improve your problem solving abilities for math classes. When given homework or another set of practice problems, try every single problem to the best of your abilities. For any problem you're stuck on, come back to it one more time later with a fresh mind. Now if you're still stuck, the real strategy begins.

At this point, most students give up and look at the solution. You should look at the solution, but not the whole solution. Go line by line until you see something that you didn't think of. The moment you do, stop reading and see if you can finish the rest of the solution on your own. If you get stuck again, peek at the solution again. Rinse and repeat for however many ideas or steps you missed out on.

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