

Math 2E – Suggested Homework 5

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Reading: Sections 16.2 and 16.3. This time you're responsible for everything in 16.2, including line integrals of vector fields. In section 16.2, ignore Example 3 and all the (awkward) derivations. In section 16.3, ignore the proof of Theorem 4. Also don't worry about simply-connectedness; it's more of a cultural thing and I won't trick you with that.

- **Section 16.2:** 8, 13, 17, 19, 22, 40, 41, 50
- **Section 16.3:** 3, 7, 12, 15, 20, 25, 29 (optional: 35)

Note: The **Midterm Exam** will take place on Friday, February 7 during the usual lecture time and in the usual lecture room. It counts for 30 % of your grade. **You have to take the exam in the lecture you're officially enrolled in, not the one you usually go to.** It covers everything from section 15.2 (Double Integrals) up to and including section 16.3 (The Fundamental Theorem for Line Integrals). There is a study guide and a practice exam on my website (including the midterm I gave in Fall 2018). I have office hours that week M 02/03 12-1 pm + Virtual OH 6:30 - 7+ pm, but please feel free to e-mail me with questions on the other days!

Important Note: I will be out of town again from Tu 02/04 until Thu 02/06 because of another on-campus interview. Lecture on **W 02/05 is cancelled**, and instead there is a **make-up lecture on M 02/03 from 5 to 5:50 pm in SH 134**. There will also be a YouTube video covering the material of the make-up lecture, in case you can't make it. I will also have extra office hours/virtual office hours on that day. Everything else (Monday's lecture, Tuesday/Thursday's discussion, and Friday's midterm) will take place as usual. For your convenience, here is the

schedule of this week:

- **M 02/03:** Lecture as usual 10-11 AM/11-12 PM, OH 12-1 PM, Make-up
Lecture 5-6 PM in SH 134, Virtual OH 6:30 - 7+ PM
- **Tu 02/04:** Discussion section as usual
- **W 02/05:** No lecture/OH/Virtual OH
- **Th 02/06:** Discussion section + Quiz as usual
- **F 02/07:** Midterm