Math 2573H   **Honors Calculus III   Fall Semester 2020**

Assignment 9 - Due Thursday 11/12/2020

The second mid-term exam will be released on 11/12/2020 and will be take home. The questions will be on the topics we have covered from sections 2.5, 2.6, 3.1, 3.3, 3.4, 4.1, 4.2, 4.3, 5.1-5.5

Do the following exercises from Chapter 5 of Colley:
5.4: 5, 12, 20, 24, 26
5.5: 1, 2, 4, 9, 10, 11, 14, 24, 28, 34

Upload to Gradescope only the following 7 questions:
5.4: 12, 24
5.5: 4, 9, 10, 24, 28

Notes
Section 5.4 is about triple integrals, and the idea is just the same as with double integrals. The main thing is to get practice integrating over different regions. Section 5.5 seems rather long for what it does. The main thing is the formula in Theorem 5.3 and then gaining familiarity with how this works in particular cases.

Exam next week
As review for the exam, look at the homework and quiz questions you have already been given. I have looked at the exercises in the book and the following are also relevant (but there are too many, so glance through them and try some of them):

2.5: 27-29
2.6: 2-4, 16-20, 24
2Misc: 34

3.1: 15
3.3: 3, 4, 18-21
3.4: 3, 4, 8, 10, 14, 15
3Misc: 4, 43, 44

4.1: 12, 13, 27a
4.2: 11-15, 32-34
4.3: 8-12, 23, 31
4Misc: 15

5.1: No extra questions
5.2: 7-10, 17-18, 28
5.3: 14-18
5.4 and 5.5: last week's homework questions.

At the start of the exam it says: You may use books, notes and any kind of calculator. You may not use the help of another person, or internet sites that do questions for you. Always show your work or explain, so that we can see you know how to do the problem without using a calculator. If you want clarification about what a question means or requires, send an email to Peter Webb: webb@math.umn.edu