MATH 141 Calculus 2 Fall 2015

Info on the final (updated November 26)

This document may be updated from time to time in response to student queries. Please check MyCourses for the latest version (the course webpage may be a little late).

Time: Wednesday 9 December, 2pm

Location: to be announced

Duration: 3 hours

If you have a conflict, please speak to Service Point.

The final is out of 100 points. The questions are divided into two parts:

- In Part A (22 points), only your final answers will be scored; there is no partial credit.
- In Part B (78 points), you need to show all of your work and justify your answers to receive full credit.

There are no multiple choice questions.

All questions on the final will be solvable using material from lectures, tutorials, and WebWork. All WebWork questions and examples from class are fair game (subject to the conditions below). However, there may also be questions unlike these, which will require you to think on your feet.

- You will not be required to sketch anything. You will provided with sketches for any area/volume questions, and any parametric/polar questions where a sketch would be helpful. You will be given the list of curves in the sketch, but the curves on the sketch will not be separately identified you will have to figure out which is which. Also, any intersections will not be labelled; you will have to compute those.
- You will not be asked to solve the questions using a particular method. You may use any mathematically-valid method of your choice, (including material from outside the class, as long as you explain it fully).

Dr. Pang will not comment on the weighting of topics, but the practice final should give you some idea.

You should expect at least half the questions on the final to be graded in a similar way to your most harshly graded quiz.

The lectures on Wednesday 2 December, Friday 4 December and Monday 7 December will be devoted to review, and are optional. Please see the other document for more details.

There may be extra office hours available in the days leading up to the final. Keep an eye on the calendar on the course webpage.

The best way to study for a math exam is to do practice problems.

- A practice final is now available from MyCourses and the Exams section of the course webpage (http://amypang.github.io/141). Solutions will be released on Tuesday December 1. The practice final is meant to give you an idea of the format and overall difficulty of the final, but the exact topics tested and the exact difficulty of each question may vary. The actual final has 9 questions, but the same number of part-questions as the practice final.
- Past finals aren't necessarily representative of our final, since the syllabus and the style of questions change considerably from semester to semester. However, they may be good preparation psychologically: it may be useful to do integration questions for three hours straight away from your notes, to develop and practise good test-taking strategies. For this purpose, 30 blank copies of the summer 2014 final are available from Dr. Pang's office hours (Monday 30 November, Wednesday 2 December, Friday 4 December, 10-10:40am, BURN 1243); Dr. Pang does NOT endorse this final over any other past final (in fact she has not even looked at the questions), but they were the only blank past finals she could acquire. Blank quizzes from earlier this semester will also be available.

Some advice:

- The final is designed to stretch you. Do not be discouraged if a few of the problems seem hard.
- The final is not short. Do NOT rush, because carelessness in arithmetic or algebraic manipulation can complicate a problem. In particular, in area/volume/arclength problems, it pays to double-check your setup, so you're not trying to solve a much harder integral than the question asked for. If you feel pushed for time, it may be better to leave out a hard question than to make a poor attempt at all the questions.
- The questions in the final are NOT in order of difficulty. It is recommended that you read all the questions before you start, and choose to first solve questions that are easy for you. This means you should figure out which topics you're good at.
- As always, please present your work coherently. We don't have a lot of time to spend on each paper, and if we can't figure out what you're trying to do, we can't give you partial credit.

There may be the chance to look over your graded final in January; keep an eye on the course webpage, and email Dr. Pang to make an appointment (cy.amy.pang@mcgill.ca; if you hear no response in 24 hours, try amypang@lacim.ca).