

NOTES FOR THE FINAL EXAM -- MAY 2014

The final exam will be held in the usual classroom in Dumbach on Saturday, 3 May 2014 from 1 : 00 - 3 : 00 with additional time (say an additional half or so) to make sure students can finish, but I will end the exam no later than 3 : 45. The exam will be closed book, closed note and no calculators or other electronic devices will be allowed. Please make sure cell phones/laptops/etc are turned off and put away before the exam starts.

I will provide a list of formulae and results for everything you will need (except for very elementary items like integrating and differentiating basic functions and solutions to simple ODEs like $y'' - y = 0$ or $y'' + y = 0$).

The exam is comprehensive, so if we did it in class, lab, classnote or reading assignment, it is fair game for the final exam. Some of the questions on the final will test your ability to solve problems to calculate a final result (the typical sort of problem you might see on homework and on the earlier hour exams). Other questions on the final will probe more deeply to test your understanding of a topic. I might ask you why a certain solution is possible, or present an incorrect solution and ask you to explain the error(s) and how you might correct them.

In terms of coverage, material related to partial differential equations will be a bit overrepresented on the final since we have not covered those topics on any hour exam. I anticipate approximately 20% of the final will be devoted to PDEs. Roughly 1/2 of the remainder of the test will be drawn from material covered before the first hour exam. There is likely to be a *Mathematica* related question on the final inspired by the final semester project.

HW 13 may be picked up during exam week office hours, which will be:

- T: 10 : 00 - 12 : 00
- W: 1 : 00 - 3 : 00
- θ: 12 : 30 - 2 : 30
- F: 10 : 00 - 12 : 00 and 1 : 00 - 2 : 30