

Final Exam review sheet for Maths 267

1. READ THE BOOK. Read every chapter of the covered material. You'll be amazed at how much you now know and this really will (trust me) solidify what you need to know. This seems like a lot of work, but it should move quickly as the beginning material will be second nature to you by now. But you still need to re-read it since now you can move past mere proficiency and actually understand why you did all those calculations before.
2. Re-do all the homework problems (don't just look over your old solutions). Re-do all the exam and quiz problems.
3. State carefully Green's Theorem, Stokes' Theorem, the Divergence Theorem. Don't just learn the formulas. You need to know the hypotheses to be able to properly use these.
4. How do we compute surface integrals? How do we compute flux integrals? How are these similar? How are they different?
5. When should you use a polar/cylindrical parametrization? When should you use spherical?