

Math 275: FINAL EXAM TOPICS AND SAMPLE PROBLEMS

The final exam is comprehensive but will concentrate more on the last part of the course, the part after the third test. Please see the sample problems from the previous three exams as well as the following:

- Triple integrals (section 15.6): # 3, 10, 19, 27
- Triple integrals in cylindrical coordinates (section 15.7): # 1, 3, 7, 11, 17, 19
- Triple integrals in spherical coordinates (section 15.8): # 1, 3, 5, 11, 15, 23, 30, 35, 41
- Change of variables in multiple integrals (section 15.9): # 1, 7, 11, 17, 25
- Vector fields (section 16.1): # 5, 11, 21
- Line integrals (section 16.2): # 3, 5, 7, 19, 32(a)
- The fundamental theorem for line integrals (section 16.3): # 3, 13, 23
- Green's theorem (section 16.4): # 2, 5, 11