## Homework 14

Math 147 (section 510–511-512), Fall 2014

This homework is due on Thursday, December 4.

- 0. Read Sections 5.8 and 6.1. Re-read page 257 (Section 5.6) before the exam: what is a criterion for oscillations vs. no oscillations? After reading these sections, you should be able to answer the following questions (which are *not* to be turned in).
  - Is  $2 \sin x$  an antiderivative of  $\sin^2 x$ ?
  - Is  $\cos x + \ln 5$  an antiderivative of  $-\sin x$ ?
  - If f is an even function (f(-c) = f(c)) for all real numbers c), does this imply that  $\int_{-2}^{2} f(x)dx = 0$ ?
- 1. Section 5.8 # 9, 10, 24, 26, 70
- 2. Section 6.1 # 18, 28, 36, 44, 50, 62, 68
- 3. (These problems are *not* to be turned in!)
  - (a) Section 5.8 # 5, 9, 31, 35, 67
  - (b) Section 6.1 # 1, 3, 5, 15, 21, 23