## 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 $\int_{-2}^{2} f(x) d x=0$ ?

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 $6.1 \# 1,3,5,15,21,23$
