Homework 14

Math 147 (section 501–502–503), Spring 2015

This homework is due on Wednesday, April 29. (*Announcement:* there will be no quiz – just an activity – that day.)

0. Read Sections 6.1 and 6.2. After reading these sections, you should be able to answer the following questions (which are *not* to be turned in).
   - If $f(x)$ is an even function ($f(-c) = f(c)$ for all real numbers c), does this imply that $\int_{-2}^{2} f(x)dx = 0$?
   - What is an example of a function $f(x)$ for which $\int_{2}^{-5} f(x)dx$ is positive?
1. Graph the function $f(x) = 1 - |x|$, and compute the definite integral $\int_{-2}^{0.5} f(x)dx$.
2. Section 6.1 # 36, 62, 68
3. Section 6.2 # 10, 48
4. (These problems are *not* to be turned in!) Section 6.1 # 1, 3, 5, 15, 21, 23

REMINDER: The third exam is on Tuesday, April 28, from 7:30pm to 9:30pm, in HELD 113. Please bring pencils and a 15-question scantron form. The topics for the exam are from *Sections 2.1–2.2, 5.2–5.6, and 5.8, plus the Mean-Value theorem.*