

Calculus III Honors Spring 2012

Homework 6

Due: Wed. Mar. 14, start of class

Instructions: Please read the homework policies and guidelines posted on the course webpage. You may *not* use a calculator (or computer) except where stated. Make sure to write your name, course and section numbers in the top right corner of your solution set, as well as the assignment number on top. Page/section numbers refer to the course text.

Conceptual Questions

1. How can you relate series to integrals? In particular, how can you use integrals to estimate the value of a series?
2. How can you use the comparison test to estimate the value of a series?

Written Assignment

Total: 100 points. Each problem is worth 10 points unless otherwise noted.

Section 12.3: 2 (5 pts), 3 (5 pts), 7, 13, 21, 33 (may use calculator for arithmetic)

Section 12.4: 7, 10, 17, 34, 45 (5 pts), 46 (5 pts) (for 45 and 46, explain your reasoning)