

## Mathematics UN1102 Section 1, Fall 2019 — Homework 2

Due date: 1:10pm on Wednesday, September 18, 2019 on Gradescope.

**Instructions:** Please present your solutions in a legible, coherent manner. Unless otherwise specified, you should show your work; you will be evaluated on both your reasoning and your answer. Points may be deducted for unclear or messy solutions.

**Collaboration and Academic Integrity:** You are encouraged to collaborate on homework. However, you must write your solutions alone and **understand what you write**. When submitting your homework, list in the space below any sources you used (in print, online, or human) other than the textbook or the teaching staff.

**Problems:** All problems are from the course textbook *Calculus: Early Transcendentals* (8th edition).

- Section 5.5: 26, 44, 47, 62, 77, 88
- Section 5.Review: Solve problem 69 using (a)  $u$ -substitution and (b) integration by parts
- Section 7.1: 12, 48, 70
- Section 7.2: 8, 47, 56
- Section 7.3: 11, 14