

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

Due date: 1:10pm on Wednesday, September 11, 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 3.4: 72
- Section 5, True/False (pg. 421): 1, 2, 3, 4, 14. If True, briefly justify your answer; if False, give an example for which the equality does not hold.
- Section 5.2: 34
- Section 5.3: 8, 11, 16, 34, 41, 56, 84