

Math 113 HW #1

Due 3:00 PM Thursday, September 2

Reading: Stewart “A Preview of Calculus” and §1.1–1.3.

Problems: Please follow the guidelines for collaboration detailed in the course syllabus.

1. Exercise 1.1.6.
2. Exercise 1.1.23. The problem is asking you to evaluate the expression $\frac{f(3+h)-f(3)}{h}$ (which is an example of a difference quotient) for the given function f .
3. Exercise 1.1.44.
4. Exercise 1.1.56. Your final answer should be a function $A(x)$.
5. Exercise 1.2.2.
6. Exercise 1.2.4.
7. Exercise 1.2.6. Sketch several examples before you try to answer the question.
8. Exercise 1.2.16.