

# MATH 151 Homework 7

Due 2/13 ♡

Read Section 2.6.

Do Section 2.5 Exercises 18, 40, 43, 46

Do Section 2.6 Exercise 8

Also, do the following exercises.

**SF20.** What is the difference between a function and an equation? Explain completely with examples.

**SF21.** What is the difference between  $\lim_{x \rightarrow a} f(x)$  and  $f(a)$ ? Why don't we just say that these are equal to make limits easier?

**SF22.** Explain why the equation  $f(1 + 2) = f(1) + f(2)$  is always true or sometimes false.

**SF23.** Sketch the graph  $y = 5 \sin(\pi x + \frac{\pi}{2}) - 3$  for  $-5 \leq x \leq 5$ .