

# MATH 151 Homework 15

Due 3/4

Read Sections 3.6 and 3.7.

Do Section 3.6 Exercises 46, 54, 57

Do Section 3.7 Exercises 7, 11, 19, 25, 41

Also, do the following exercises.

**SF39.** Suppose  $f(x)$  is the function that measures the sine of the angle  $x$ , where  $x$  is measured in degrees, and  $g(x)$  is the function that measures the cosine of  $x$  measured in degrees. Express the derivative of  $f$  in terms of  $g$  and the derivative of  $g$  in terms of  $f$ .