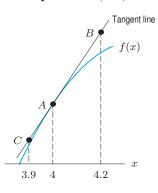
## MATH 151 Homework 9 Due 2/18

Read Sections 3.1 and 3.2.

Do Section 3.1 Exercises 6, 8, 19, 27, 32 Do Section 3.2 Exercise 1

Also, do the following exercises.

- **SF24.** Is there a number whose cube is one more than the number itself? Explain your answer in complete sentences.
- **SF25.** On October 17, 2006, in an article called "US Population Reaches 300 Million," the BBC reported that the US gains 1 person every 11 seconds. If f(t) is the US population in millions t years after October 17, 2006, find approximately f(0) and f'(0).
- **SF26.** The function in the figure below has f(4) = 25 and f'(4) = 1.5. Find the coordinates of the points A, B, and C.



- **SF27.** If g(x) = 1/x, find g'(2).
- **SF28.** Use the figure below to fill in the blanks in the following statements about the function g.

