

PROBLEM SET 5 (DUE ON MONDAY, NOVEMBER 10 AT 4:00 PM)

- **Problem 6:** Suppose you know that

$$f'(x) = \frac{2}{1+x^4} - \frac{3}{4+x^4}.$$

Is $f(0) < f(1)$? Why or why not? Reason using the derivative. Finding an f to go with the given f' is not easier, I assure you.

- **Problem 7:** Apostol 4.21 #4,5.