## Chapter 2.5: More Second Derivative Practice Calculus I

College of the Atlantic. Fall 2016

- 1. The plot in Fig. 1 shows the derivative of a function. Which of the following pairs are larger?
  - (a) f'(1) or f'(2)?
  - (b) f''(1) or f''(2)?
  - (c) f(1) or f(2)?
  - (d) f'(2) or f'(4)?
  - (e) f''(2) or f''(4)?

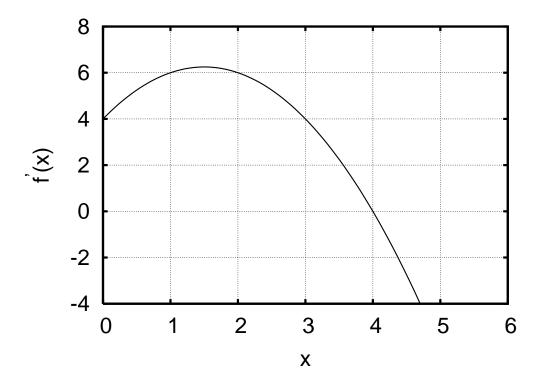


Figure 1: A plot of f'(x).

2. There is a problem on the other side of this page.

- 3. A function (not its derivative) is plotted in Fig. 2.
  - (a) For what values of x is f(x) positive?
  - (b) For what values of x is f(x) negative?
  - (c) For what values of x is f'(x) positive?
  - (d) For what values of x is f'(x) negative?
  - (e) For what values of x is f''(x) positive?
  - (f) For what values of x is f''(x) negative?

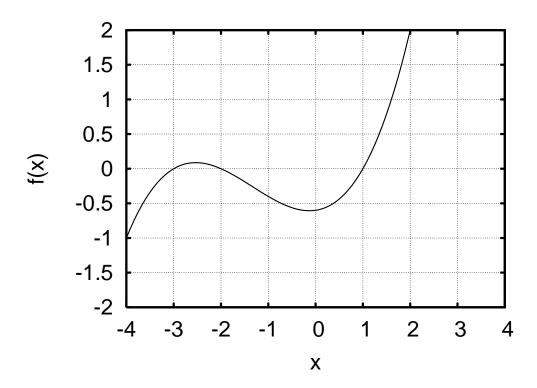


Figure 2: A plot of a function f(x).