## Chapter 2.2: The Derivative at a Point:

## Determining the Derivative Graphically, Numerically, and Algebraically

## Calculus I

College of the Atlantic. Fall 2018

1. Consider  $f(x) = x^2$ . Using the graph below, estimate f'(2).

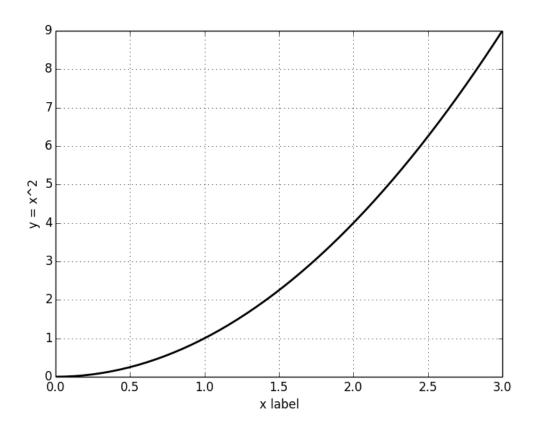


Figure 1: A graph of  $f(x) = x^2$ .

- 2. Determine f'(2) numerically.
- 3. If you can, determine f'(2) using algebra.