

**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 $f'(2)$.

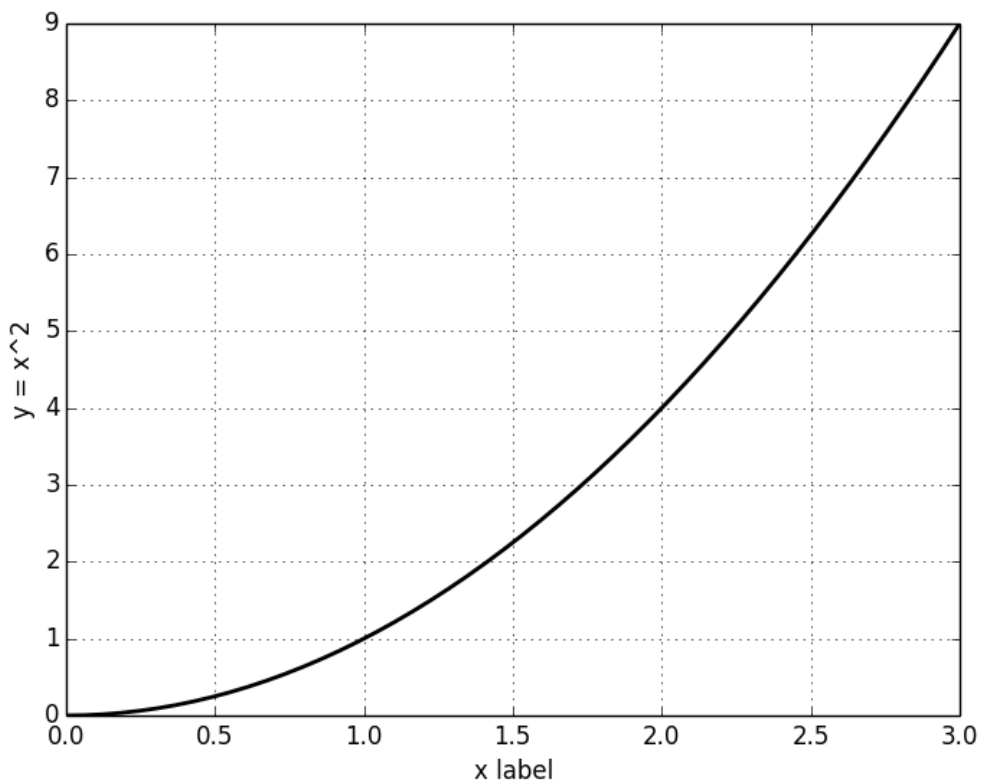


Figure 1: A graph of $f(x) = x^2$.

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