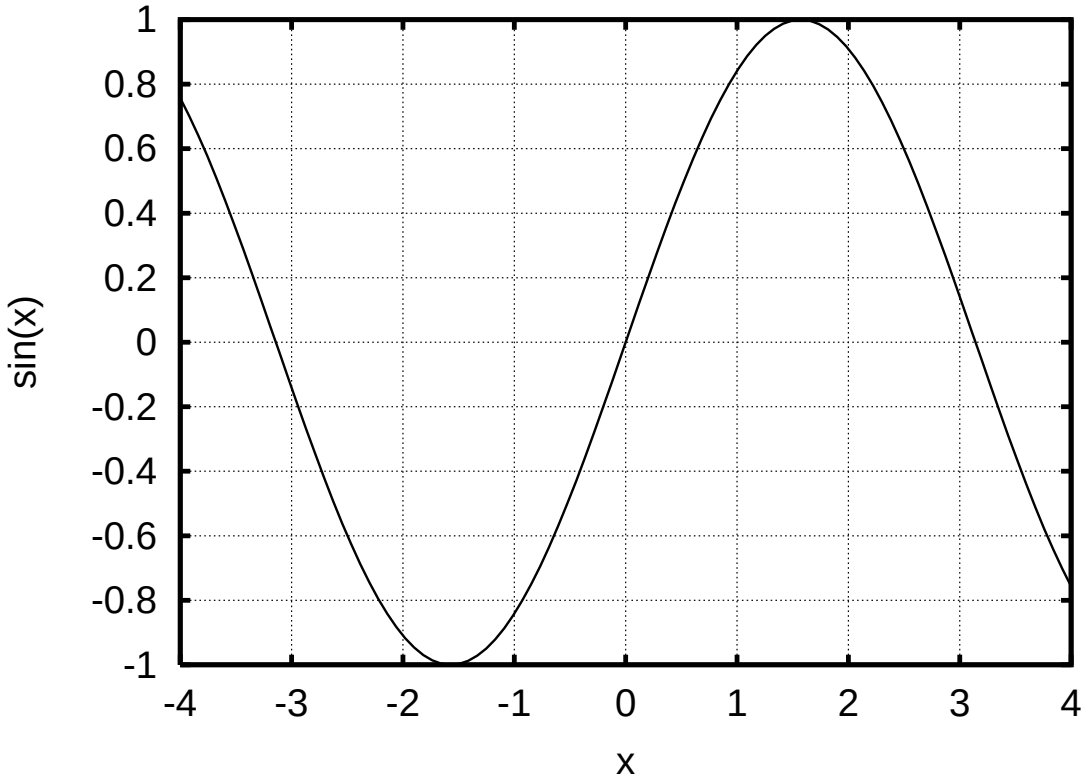
Chapter 2.2: The Derivative at a Point:

Determining the Derivative Graphically, Numerically, and Algebraically

Calculus I

College of the Atlantic. Fall 2018

1. Consider $g(x) = \sin(x)$. Using the graph below, estimate $g'(0)$.



2. Numerically estimate $g'(0)$. That is, start with the definition of the derivative. Then use your calculator to numerically evaluate the limit: see what happens as h gets smaller and smaller. As always, use radians. Do your answers for $g'(0)$ agree?