## Lab 04B

## Calculus I

College of the Atlantic. 07 October 2024



Figure 1: A function

- 1. Show how to represent the following quantities on Fig. 1.
  - (a) f(1.8)
  - (b) f(1.2)
  - (c) f(1.8) f(1.2)
  - (d)  $\frac{f(1.8)-f(1.2)}{1.8-1.2}$
  - (e) The instantaneous speed at t = 1.2

Which of the above quantities are lengths and which are slopes?



Figure 2: Another function

- 2. For the function in Fig. 2, determine which of the following pairs of numbers is larger. Note that the y-axis scale might be different than the x-axis scale.
  - (a) f(1.2) and f(1.4)
  - (b) f(1.4) f(1.2) and f(1.6) f(1.4)
  - (c)  $\frac{f(1.4)-f(1.2)}{1.4-1.2}$  and  $\frac{f(1.6)-f(1.4)}{1.6-1.4}$
  - (d) The instantaneous speed at 1.2 and the instantaneous speed at 1.6

Remember that a "bigger negative" number is smaller than a "less negative number." I.e., -4 < -2.

Check in with me or a TA before you go.