Chapter 5 Reading Notes

In this chapter, we will learn about applications of the first and second derivative to graphs. Then, we will apply our knowledge of derivatives to solve optimization (maximization and minimization) problems.

Section 5.1: First Derivatives and Graphs

By the end of this section, you should be able to:

- Analyze the graph of a function.
  - Identify the intervals on which a function is increasing or decreasing.
  - Determine the intervals on which the first derivative is positive or negative.
- Determine local extrema and intervals of increasing and decreasing using the first derivative.
  - Identify the critical values of a function.
  - Create a sign chart of the characteristics of the first derivative.
- Match the graph of a function to the graph of its derivative.

In the chapter 3, we learned about the first derivative as the slope of a graph. In this section, we will explore the relationship between the first derivative and the shape of the graph in general.

Here is the basic idea:
1. Calculate the first derivative.
2. Set the derivative equal to 0 and solve for x. (I.e., locations of horizontal tangent lines.)
3. Identify any values of x for which the derivative doesn't exist.
4. Use all the x's to make a sign chart and note where the derivative is positive or negative.
5. Intervals on which the first derivative is positive or negative correspond to intervals on which the original function is increasing or decreasing.

Work Example 1. Compare your answers to the book's solution. What questions do you have?

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