

CHAPTER 2:

Limits and Continuity

- 2.1: An Introduction to Limits
- 2.2: Properties of Limits
- 2.3: Limits and Infinity I: Horizontal Asymptotes (HAs)
- 2.4: Limits and Infinity II: Vertical Asymptotes (VAs)
- 2.5: The Indeterminate Forms $0/0$ and ∞ / ∞
- 2.6: The Squeeze (Sandwich) Theorem
- 2.7: Precise Definitions of Limits
- 2.8: Continuity

- The conventional approach to calculus is founded on limits.
- In this chapter, we will develop the concept of a limit by example.
- Properties of limits will be established along the way.
- We will use limits to analyze asymptotic behaviors of functions and their graphs.
- Limits will be formally defined near the end of the chapter.
- Continuity of a function (at a point and on an interval) will be defined using limits.