- 1. Goal:
  - a. Derivative of a function: Concept
- 2. Review:
  - a. Slope
    - b. Lines from slope and point
- 3. Informal Definition.
  - a. Tangent line at x: The line that touches the graph at x which has the same slope as the graph at that point.
  - b. F'(x) = the slope of the tangent line at x of the function f
  - c. Visual examples: From f to f'. Evaluate f' at points
- 4. Examples.
  - a. Tangent line of a line.
  - b. Tangent line of absolute value (and non-existence of derivative)
  - c. Half circle at some points.
  - d. From picture, where derivative is larger/smaller/zero/undefined.