- I. Finding the slope/equation of a line
  - Given the slope and/or a point(s)
  - In word problems
- II. Evaluating a function when the input is not numeric

• For example: 
$$\frac{f(x + \Delta x) - f(x)}{\Delta x}$$

- III. Composition of functions
- IV. Finding limits
  - Using a table
  - From a graph
  - By direct substitution
  - By factoring and canceling
  - In the definition of derivative (limit of a difference quotient)
- V. Finding values where function is not differentiable
  - Using a graph
- VI. Using derivative rules
  - Power rule
  - Product rule
  - Quotient rule
  - General power rule (chain rule)
- VII. Applications using the derivative
  - Finding the slope/equation of a tangent line; finding point(s) where slope of a tangent line has a given value
  - Finding the rate of change of a function
  - Finding a marginal function and its use in estimating actual change
  - Finding velocity
  - Finding the value of a derivative at a given point
- VIII. Applications not using the derivative
  - Finding the y-value of a point
  - Finding the average rate of change
  - Finding the actual change
  - Estimating the slope of a graph at a point using a grid
  - Estimating the average rate of change and rate of change of a function using a grid