

- I. Evaluating a function when the input is not numeric
 - For example: $\frac{f(x + \Delta x) - f(x)}{\Delta x}$
- II. Composition of functions
- III. 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)
- IV. Finding values where function is not differentiable
 - Using a graph
- V. Using derivative rules
 - Power rule
 - Product rule
 - Quotient rule
 - General power rule (chain rule)
- VI. 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
- VII. 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