

# Calculus

## Differential calculus $\frac{dy}{dx}$

For an introduction to differentiation:

- A brief refresher on basic differentiation, critical points and their nature, and with applications to economics.  
[Introduction to calculus \(pdf, 78KB\)](#)
- A more in-depth treatment to differentiation: rates of change, tangents and derivatives, the product, quotient and chain rule, stationary points and optimisation problems.  
[Introduction to differential calculus \(pdf, 2.1MB\)](#)

For specific help on calculating derivatives using the rules of differentiation:

- Differentiating constants  $y = k$ , polynomial functions  $y = x^n$ , constant multiples  $y = cf(x)$ , addition and subtraction of functions  $y = f(x) \pm g(x)$ , the product rule for  $y = uv$ , and the quotient rule for  $y = \frac{u}{v}$ .  
[The rules of calculus \(pdf, 89KB\)](#)
- The chain rule for composite functions  $y = h(g(x))$ , and its two formulations:  
$$y' = h'(g(x))g'(x) \quad \text{and} \quad \frac{dy}{dx} = \frac{dy}{du} \times \frac{du}{dx}$$
  
[Composite function rule \(the chain rule\) \(pdf, 88KB\)](#)
- For derivatives of functions with exponentials  $e^x$  and logarithms  $\ln x$ . Some of the examples assumes knowledge of the chain rule.  
[Derivatives of exponential and logarithmic functions \(pdf, 81KB\)](#)
- For derivatives of functions with  $\sin x$ ,  $\cos x$ ,  $\tan x$ . Some of the examples assumes knowledge of the product, quotient and chain rules.  
[Differentiation of trigonometry \(pdf, 78KB\)](#)

For what derivatives can tell us about the shape of a graph

- The first derivative  $\frac{dy}{dx}$ : increasing and decreasing functions, stationary points and their nature, relative maximum and minimum.  
[The first derivative and stationary points \(pdf, 99KB\)](#)
- The second derivative  $\frac{d^2y}{dx^2}$ : concave up, concave down and points of inflection.  
[Second derivative and points of inflection \(pdf, 95KB\)](#)

## Integral calculus $\int f(x)dx$

For an introduction to the indefinite integral  $\int f(x)dx$ : anti-derivatives, calculating some elementary anti-derivatives and reversing the Chain Rule.

[Introduction to integration part 1: the anti-derivative \(pdf, 191KB\)](#)

For an introduction to the definite integral  $\int_a^b f(x)dx$ : limiting sums, the Fundamental Theorem of Calculus, and finding areas under and between curves.

[Introduction to integration part 2: the definite integral \(pdf, 281KB\)](#)

## Applications of calculus

For demonstrations of how to use the concepts and tools of differential calculus to sketch graphs and curves of functions through several worked examples.

[Curve sketching using calculus \(pdf, 119KB\)](#)

# Calculus Study Guide Maple

**Thirumalaisamy P.  
Velavancorresponding**



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