



# Calculus Methods

## DIFFERENTIATION

### Limits & Continuity

#### DEFINITIONS:

•  $\lim_{x \rightarrow a} f(x) = L$  if  $f(x)$  is close to  $L$  for all  $x$  sufficiently close (but not necessarily equal) to  $a$

•  $f(x)$  is continuous at  $x = a$  if:

$f(x)$  is defined,  $\lim_{x \rightarrow a} f(x) = L$  exists, and  $f(a) = L$

#### THEOREMS

• **Intermediate value theorem:** If  $f$  is continuous on the closed interval  $[a, b]$ , then  $f$  achieves every value between  $f(a)$  and  $f(b)$ ; for every  $y$  between  $f(a)$  and  $f(b)$  there is at least one  $x$  in  $[a, b]$  such that  $f(x) = y$

• The **zero theorem** states that if  $f$  is continuous on  $[a, b]$  and  $f(a)$  and  $f(b)$  have opposite signs, then there is an  $x$  in  $(a, b)$  such that  $f(x) = 0$

• **Extreme value theorem:** If  $f$  is continuous on the closed interval  $[a, b]$  then  $f$  achieves a minimum and a maximum on  $[a, b]$ ; there are  $c$  and  $d$  in  $[a, b]$  such that  $f(c) \leq f(x) \leq f(d)$  for all  $x$  in  $[a, b]$

• **Sandwich theorem:** If  $g(x) \leq f(x) \leq h(x)$  for  $x$  near  $a$ , and  $\lim_{x \rightarrow a} g(x) = \lim_{x \rightarrow a} h(x) = L$ , then  $\lim_{x \rightarrow a} f(x) = L$

• **Special case:** if  $|h(x)| \leq k(x)$  for  $x$  near  $a$ , then  $\lim_{x \rightarrow a} k(x) = 0$  implies  $\lim_{x \rightarrow a} h(x) = 0$

E.g.,  $\lim_{x \rightarrow 0} x \sin\left(\frac{1}{x}\right) = 0$  (using  $k(x) = |x|$ )

• **L'Hôpital's Rule:** (This rule works when  $f(x)$  and  $g(x)$  are differentiable functions.)

• If  $\lim_{x \rightarrow a} f(x) = 0 = \lim_{x \rightarrow a} g(x)$ , and if  $f'(x)$  and  $g'(x)$  are defined and  $g'(x) \neq 0$  for  $x$  near  $a$ , then  $\lim_{x \rightarrow a} \frac{f(x)}{g(x)} = \lim_{x \rightarrow a} \frac{f'(x)}{g'(x)}$  provided the latter limit exists (or is infinite). The rule also holds when the limits of  $f$  and  $g$  are  $\pm \infty$

#### LIMIT FORMULAS

• **Polynomials and rational functions:**

• If  $c$  is a constant,  $\lim_{x \rightarrow a} c = c$

• If  $p(x)$  is a polynomial,  $\lim_{x \rightarrow a} p(x) = p(a)$

• Let  $p(x)$  and  $q(x)$  be polynomials.

• If  $q(a) \neq 0$ , then  $\lim_{x \rightarrow a} \frac{p(x)}{q(x)} = \frac{p(a)}{q(a)}$

• If  $q(a) = 0$  and  $p(a) \neq 0$ , one-sided limits are  $\pm \infty$

E.g., for integers  $n > 0$ ,  $\lim_{x \rightarrow 0^+} \frac{1}{x^n} = +\infty$ ,  $\lim_{x \rightarrow 0^+} \frac{1}{x^n} = -\infty$  ( $n$  odd);  $\lim_{x \rightarrow 0^+} \frac{1}{x^n} = +\infty$  ( $n$  even)

• If  $q(a) = 0$  and  $p(a) = 0$ , first cancel all common factors of  $x - a$  from  $p(x)$  and  $q(x)$

E.g.,  $\lim_{x \rightarrow -2} \frac{x^2 + 2x - 3}{x^3 - 3x + 2} = \lim_{x \rightarrow -2} \frac{(x+3)(x-1)}{(x-1)(x+2)} = \frac{1}{1}$

• **Rational functions at infinity:**

For integer  $n > 0$ ,  $\lim_{x \rightarrow \infty} x^n = +\infty$ ,  $\lim_{x \rightarrow -\infty} x^n = -\infty$  ( $n$  odd);

$\lim_{x \rightarrow \infty} x^n = +\infty$  ( $n$  even);  $\lim_{x \rightarrow -\infty} x^n = +\infty$

$\lim_{x \rightarrow \infty} \frac{ax^c + bx^{c-1} + \dots}{cx^c + dx^{c-1} + \dots} = \frac{a}{c}$ ,  $\lim_{x \rightarrow \infty} x^c = +\infty$  ( $c$  non-zero)

• **Arbitrary powers:**

$\lim_{x \rightarrow a} x^r = a^r$  (when  $a^r$  is defined)

For  $p > 0$ ,  $\lim_{x \rightarrow \infty} x^p = \infty$  and  $\lim_{x \rightarrow -\infty} x^p = \infty$

• **Limits for basic derivatives**

$\lim_{x \rightarrow a} \frac{a^x - a^a}{x - a} = a^a \ln a$  (when  $a^x$  is defined)

$\lim_{x \rightarrow 0} \frac{e^x - 1}{x} = 1 = \ln e$

$\lim_{x \rightarrow 0} \frac{x^c - 1}{x} = c$  (a definition of  $c$ )

$\lim_{x \rightarrow 0} \frac{\sin x}{x} = 1$

$\lim_{x \rightarrow 0} \frac{\cos x - 1}{x} = 0$

### Derivatives

#### DEFINITION:

•  $f'(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$

• If  $y = f(x)$ , the derivative  $f'(x)$  is also denoted  $\frac{dy}{dx}$

#### FORMULAS AND TESTS:

• **Power Rule:**

$\frac{d}{dx} (x^n) = nx^{n-1}$

$\frac{d}{dx} (x^a) = ax^{a-1}$

$\frac{d}{dx} (ax) = a$

• **General Power Rule:**

$\frac{d}{dx} (f(x)^n) = n(f(x))^{n-1} f'(x)$

$\frac{d}{dx} (e^{ax}) = ae^{ax}$

$\frac{d}{dx} (\ln f(x)) = \frac{f'(x)}{f(x)}$

• **Sum or Difference Rule:**

$\frac{d}{dx} (f(x) \pm g(x)) = f'(x) \pm g'(x)$

• **Constant Multiple Rule:**

$\frac{d}{dx} (kf(x)) = kf'(x)$

• **Product Rule:**

$\frac{d}{dx} (f(x)g(x)) = f'(x)g(x) + f(x)g'(x)$

• **Quotient Rule:**

$\frac{d}{dx} \left( \frac{f(x)}{g(x)} \right) = \frac{f'(x)g(x) - f(x)g'(x)}{[g(x)]^2}$

#### Chain Rule:

$\frac{d}{dx} [f(g(x))] = f'(g(x))g'(x)$  or  $\frac{dy}{dx} = \frac{dy}{du} \cdot \frac{du}{dx}$

#### Derivative of an inverse function:

$\frac{dy}{dx} = \frac{1}{\frac{dx}{dy}}$

• **Inverse functions:** If  $f$  is the inverse of a function  $g$  (and  $g'$  is continuous and nonzero), then  $f'(x) = \frac{1}{g'(f(x))}$

• To get a specific formula directly, start with  $y = f(x)$ ; rewrite it  $g(y) = x$ ; differentiate with respect to  $x$  to get  $g'(y)y' = 1$ ; write this  $y' = 1/g'(y)$  and put  $g(y) = f(x)$  and  $g'(y) = x'$

EX:  $y = \ln x$ ;  $e^y = x$ ;  $e^y y' = 1$ ;  $y' = \frac{1}{e^y} = \frac{1}{x}$

• **First Derivative Test:** Suppose  $c$  is a critical point of  $f$ , and  $f$  is continuous at  $c$ . If  $f'(x)$  changes sign from negative to positive as  $x$  increases through  $c$ , then  $c$  is a local minimum point; if  $f'(x)$  changes sign from positive to negative as  $x$  increases through  $c$ , then  $c$  is a local maximum point; if  $f'(x)$  keeps the same sign, then  $c$  is not an extremum point.

• **Second Derivative Test:** Suppose  $f$  is differentiable near a critical point  $c$ ; if  $f''(c) > 0$ , then  $c$  is a local minimum point; if  $f''(c) < 0$ , then  $c$  is a local maximum point.

### Differential Equations

• **Differential equation:** Any equation involving a derivative.

EX: an equation involving  $\frac{dy}{dx}$  (or  $y'$ , or  $y'(x)$ ),  $y$  and  $x$

• **Solution:** A function  $y = y(x)$ , such that  $\frac{dy}{dx} = y'$ , and  $x$  satisfy the original equation.

• **Initial value problem:** Also specifies the value of the solution  $y(x)$  at some point  $x = a$

• **Simple differential equations:** Can be solved by separation of variables and integration.

EX: The equation  $f(x) = g(y) \frac{dy}{dx}$  can be written as  $f(x) dx = g(y) dy$  and can be solved by integrating both sides:  $\int f(x) dx = \int g(y) dy$

### Implicit Differentiation

• Given an equation involving a function of  $x$  and  $y$ , to find  $\frac{dy}{dx}$ :

• Differentiate both sides of the equation with respect to  $x$ , treating  $y$  as a function of  $x$  and applying the chain rule to each term involving  $y$  (i.e.  $\frac{d}{dx} [f(y)] = f'(y) \frac{dy}{dx}$ )

• Move all terms with  $\frac{dy}{dx}$  to left side and all other terms to the right.

• Solve for  $\frac{dy}{dx}$

### Approximations & Differentials

• Let  $y = f(x)$  and assume  $f'(x)$  exists

• The equation of the tangent line to  $y = f(x)$  at the point  $(a, f(a))$  is  $y - f(a) = f'(a)(x - a)$

• The differential of  $y$  is  $dy = f'(x)dx$

• Use linear approximation, or approximation by differentials by setting:  $dx = \Delta x = x - a$ ,  $\Delta y = f(x) - f(a)$

• The equation of the tangent line becomes:  $\Delta y = f'(a)\Delta x = f'(a)dx$ . If  $\Delta x$  is small, then  $\Delta y \approx dy$

• That is,  $f(x) = f(a) + f'(a)(x - a)$

• The  $n$ th Taylor polynomial of  $f(x)$  centered at  $x = a$  is  $p_n(x) = f(a) + \frac{f'(a)(x-a)}{1!} + \frac{f''(a)(x-a)^2}{2!} + \dots + \frac{f^{(n)}(a)(x-a)^n}{n!}$

# Calculus Methods Unit Guide

**James Alfred Miner**



## Calculus Methods Unit Guide:

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