

# CALCULUS REFERENCE

## THEORY

### DERIVATIVES AND DIFFERENTIATION

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

#### DERIVATIVE RULES

- Sum and Difference:**  $\frac{d}{dx}(f(x) \pm g(x)) = f'(x) \pm g'(x)$
- Scalar Multiple:**  $\frac{d}{dx}(c \cdot f(x)) = c \cdot f'(x)$
- Product:**  $\frac{d}{dx}(f(x)g(x)) = f'(x)g(x) + f(x)g'(x)$   
Mnemonic: If  $f$  is "the" and  $g$  is "the," then the product rule is "the of the plus the of the."
- Quotient:**  $\frac{d}{dx}\left(\frac{f(x)}{g(x)}\right) = \frac{f'(x)g(x) - f(x)g'(x)}{g(x)^2}$   
Mnemonic: "The of the minus the of the over the the."
- The Chain Rule:**
  - First Formulation:  $\frac{d}{dx}(f(g(x))) = f'(g(x))g'(x)$
  - Second Formulation:  $\frac{dy}{dx} = \frac{dy}{du} \cdot \frac{du}{dx}$
- Implicit Differentiation:** Used for curves where it is difficult to express  $y$  as a function of  $x$ . Differentiate both sides of the equation with respect to  $x$ . Use the chain rule carefully whenever  $y$  appears. Then, isolate  $\frac{dy}{dx} = y'$  and solve for  $y'$ .  
Ex:  $x + \sin y = x^2 \Rightarrow 1 + \cos y \cdot \frac{dy}{dx} = 2x$ . Differentiate to first obtain  $\frac{dy}{dx} \cos y = x^2 \frac{dy}{dx} - 2x$ , and then  $\cos y \cdot \frac{dy}{dx} - x^2 \frac{dy}{dx} = -2x$ . Finally, solve for  $y' = \frac{-2x}{\cos y - x^2}$ .

#### COMMON DERIVATIVES

- Constants:**  $\frac{d}{dx}(c) = 0$
- Linear:**  $\frac{d}{dx}(ax + b) = a$
- Powers:**  $\frac{d}{dx}(x^n) = nx^{n-1}$  (true for all real  $n$ )
- Polynomials:**  $\frac{d}{dx}(a_n x^n + \dots + a_1 x + a_0) = na_n x^{n-1} + \dots + a_1$
- Exponential:**
  - Base  $e$ :  $\frac{d}{dx}(e^x) = e^x$
  - Arbitrary base:  $\frac{d}{dx}(a^x) = a^x \ln a$
- Logarithmic:**
  - Base  $e$ :  $\frac{d}{dx}(\ln x) = \frac{1}{x}$
  - Arbitrary base:  $\frac{d}{dx}(\log_a x) = \frac{1}{x \ln a}$
- Trigonometric:**
  - Sine:  $\frac{d}{dx}(\sin x) = \cos x$
  - Cosine:  $\frac{d}{dx}(\cos x) = -\sin x$
  - Tangent:  $\frac{d}{dx}(\tan x) = \sec^2 x$
  - Cotangent:  $\frac{d}{dx}(\cot x) = -\csc^2 x$
  - Secant:  $\frac{d}{dx}(\sec x) = \sec x \tan x$
  - Cosecant:  $\frac{d}{dx}(\csc x) = -\csc x \cot x$
- Inverse Trigonometric:**
  - Arctangent:  $\frac{d}{dx}(\arctan x) = \frac{1}{1+x^2}$
  - Arccotangent:  $\frac{d}{dx}(\operatorname{arccot} x) = -\frac{1}{1+x^2}$
  - Arctangent:  $\frac{d}{dx}(\arctan x) = \frac{1}{1+x^2}$
  - Arccotangent:  $\frac{d}{dx}(\operatorname{arccot} x) = -\frac{1}{1+x^2}$

## INTEGRALS AND INTEGRATION

### DEFINITE INTEGRAL

The definite integral  $\int_a^b f(x) dx$  is the signed area between the function  $y = f(x)$  and the  $x$ -axis from  $x = a$  to  $x = b$ .

- Riemann Definition:** Let  $n$  be an integer and  $\Delta x = \frac{b-a}{n}$ . For each  $k = 0, 1, \dots, n-1$ , pick point  $c_k^*$  in the interval  $[a + k\Delta x, a + (k+1)\Delta x]$ . The expression  $\Delta x \sum_{k=0}^{n-1} f(c_k^*)$  is a Riemann sum. The definite integral  $\int_a^b f(x) dx$  is defined as  $\lim_{n \rightarrow \infty} \Delta x \sum_{k=0}^{n-1} f(c_k^*)$ .

### INDEFINITE INTEGRAL

- Antiderivative:** The function  $F(x)$  is an antiderivative of  $f(x)$  if  $F'(x) = f(x)$ .
- Indefinite Integral:** The indefinite integral  $\int f(x) dx$  represents a family of

## APPLICATIONS

### GEOMETRY

**Area:**  $\int_a^b (f(x) - g(x)) dx$  is the area bounded by  $y = f(x)$ ,  $y = g(x)$ ,  $x = a$  and  $x = b$  if  $f(x) \geq g(x)$  on  $[a, b]$ .

**Volume of revolved solid (disk method):**  $\int_a^b \pi (f(x))^2 dx$  is the volume of the solid except out by the curve  $y = f(x)$  as it revolves around the  $x$ -axis on the interval  $[a, b]$ .

**Volume of revolved solid (washer method):**  $\int_a^b \pi (f(x)^2 - g(x)^2) dx$  is the volume of the solid except out between  $y = f(x)$  and  $y = g(x)$  as they revolve around the  $x$ -axis on the interval  $[a, b]$  if  $f(x) \geq g(x)$ .

**Antiderivatives:**  $\int f(x) dx = F(x) + C$  if  $F'(x) = f(x)$ .

### FUNDAMENTAL THEOREM OF CALCULUS

**Part 1:** If  $f(x)$  is continuous on the interval  $[a, b]$ , then the area function  $F(x) = \int_a^x f(t) dt$  is continuous and differentiable on the interval and  $F'(x) = f(x)$ .

**Part 2:** If  $f(x)$  is continuous on the interval  $[a, b]$  and  $F(x)$  is any antiderivative of  $f(x)$ , then  $\int_a^b f(x) dx = F(b) - F(a)$ .

### APPROXIMATING DEFINITE INTEGRALS

**1. Left-hand rectangle approximation:**

$$L_n = \Delta x \sum_{k=0}^{n-1} f(x_k)$$

**2. Right-hand rectangle approximation:**

$$R_n = \Delta x \sum_{k=1}^n f(x_k)$$

**3. Midpoint Rule:**

$$M_n = \Delta x \sum_{k=1}^n f\left(\frac{x_{k-1} + x_k}{2}\right)$$

**4. Trapezoidal Rule:**  $T_n = \frac{\Delta x}{2} [f(x_0) + 2f(x_1) + 2f(x_2) + \dots + 2f(x_{n-1}) + f(x_n)]$

**5. Simpson's Rule:**  $S_n = \frac{\Delta x}{3} [f(x_0) + 4f(x_1) + 2f(x_2) + \dots + 2f(x_{n-2}) + 4f(x_{n-1}) + f(x_n)]$

### TECHNIQUES OF INTEGRATION

**1. Properties of Integrals**

- Sum and difference:**  $\int (f(x) \pm g(x)) dx = \int f(x) dx \pm \int g(x) dx$
- Constant multiple:**  $\int c f(x) dx = c \int f(x) dx$
- Definite integrals, reversing the limits:**  $\int_a^b f(x) dx = - \int_b^a f(x) dx$
- Definite integrals, concatenation:**  $\int_a^b f(x) dx + \int_b^c f(x) dx = \int_a^c f(x) dx$
- Definite integrals, comparison:**  
If  $f(x) \leq g(x)$  on the interval  $[a, b]$ , then  $\int_a^b f(x) dx \leq \int_a^b g(x) dx$ .

**2. Substitution Rule (u-substitution):**  $\int f(g(x))g'(x) dx = \int f(u) du$

- $\int f(g(x))g'(x) dx = F(g(x)) + C$  if  $\int f(u) du = F(u) + C$ .

**3. Integration by Parts**

Best used to integrate a product where one factor ( $u = f(x)$ ) has a simple derivative and the other factor ( $dv = g'(x) dx$ ) is easy to integrate.

- Indefinite integrals:**  
 $\int f(x)g'(x) dx = f(x)g(x) - \int f'(x)g(x) dx$  or  $\int u dv = uv - \int v du$
- Definite integrals:**  $\int_a^b f(x)g'(x) dx = f(x)g(x) \Big|_a^b - \int_a^b f'(x)g(x) dx$

**4. Trigonometric Substitutions:** Used to integrate expressions of the form  $\sqrt{a^2 - x^2}$ ,  $\sqrt{x^2 + a^2}$ ,  $\sqrt{x^2 - a^2}$ .

Expression	Trig substitution	Expression becomes	Range of $\theta$	Pythagorean identity used
$\sqrt{a^2 - x^2}$	$x = a \sin \theta$ $dx = a \cos \theta d\theta$	$a \cos \theta$	$-\frac{\pi}{2} \leq \theta \leq \frac{\pi}{2}$ $-1 \leq \sin \theta \leq 1$	$1 - \sin^2 \theta = \cos^2 \theta$
$\sqrt{a^2 + x^2}$	$x = a \tan \theta$ $dx = a \sec^2 \theta d\theta$	$a \sec \theta$	$-\frac{\pi}{2} < \theta < \frac{\pi}{2}$ $-\infty < \tan \theta < \infty$	$\sec^2 \theta - 1 = \tan^2 \theta$
$\sqrt{x^2 - a^2}$	$x = a \sec \theta$ $dx = a \sec \theta \tan \theta d\theta$	$a \tan \theta$	$0 \leq \theta < \frac{\pi}{2}$ $1 \leq \sec \theta < \infty$	$\sec^2 \theta - 1 = \tan^2 \theta$

**Volume of revolved solid (shell method):**  $\int_a^b 2\pi x f(x) dx$  is the volume of the solid obtained by revolving the region under the curve  $y = f(x)$  between  $x = a$  and  $x = b$  around the  $y$ -axis.

**Arc length:**  $\int_a^b \sqrt{1 + (f'(x))^2} dx$  is the length of the curve  $y = f(x)$  from  $x = a$  to  $x = b$ .

**Surface area:**  $\int_a^b 2\pi x f(x) \sqrt{1 + (f'(x))^2} dx$  is the area of the surface except out by revolving the function  $y = f(x)$  about the  $x$ -axis between  $x = a$  and  $x = b$ .

# Crib Sheet For College Algebra

**Wesolvethem Team**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'Wesolvethem Team' text.

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**Ultimate Cheat Sheet for College Math: Algebra - Trig - Calculus - Linear Algebra - Diff Eq.** Wesolvethem Team, 2017-08-18 Everything a college student needs from algebra trigonometry precalculus calculus linear algebra differential equations and physics

**Basic College Math Irm+Tests Sup** Martin-Gay, 2002-09

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*Desires of My Heart* Ken Peery, 2009-07 In a story that spans one fourth of America's history Ken Peery reveals what can be accomplished when a person learns to Delight yourself in the Lord Ps 37:4 From the story of how his ancestors came to America to small town life in the Midwest to Naval service during World War II to a distinguished career in law and Christian mediation to political involvement to a miraculous medical recovery Ken's story is not only all American it is a compelling story of the benefits of delighting in the Lord What is a methobapterian What is Justice How do you define it Can it be defined What would you do if you and your mate were seriously sunburned on your honeymoon Re live trips through the Gorges of the upper Yangtze River Ken Peery was born in 1925 and raised and nurtured in Emporia Kansas After service in the US Navy in WWII Ken practiced law in Emporia did a seven year stint as a lawyer in a government agency in Washington DC and in 1962 re entered law practice in Concordia Kansas In 1982 he escaped from law practice to establish Christian conciliation programs in the Kansas City area and later in Bentonville and Rogers Arkansas Ken and Doris his wife have been married 56

years They are the parents of two sons grandparents of six grandchildren and have two great grandsons The Peerys live in Topeka Kansas

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