

# CALCULUS 2

INTEGRAL & DIFFERENTIAL CALCULUS FOR ADVANCED STUDENTS

## INTEGRATION

### DEFINITIONS

**Integration.** The definite integral expresses the idea of adding the values of a function over a continuous interval.

**Riemann sum.** A regular Riemann sum of a function  $f$  defined on  $[a, b]$  is approximated by a partition, which is a finite division of  $[a, b]$  into subintervals, typically expressed by endpoints  $x_0, x_1, x_2, \dots, x_n$  and a sampling of points, one point from each subinterval, say  $s_i$  from  $[x_{i-1}, x_i]$ . The associated Riemann sum is  $\sum_{i=1}^n f(s_i)(x_i - x_{i-1})$ .

A **regular partition** has subintervals all the same length,  $x_i - x_{i-1} = \Delta x$ ,  $x_i = a + i\Delta x$ . A partition's error is the maximum subinterval length. A left sum takes the left endpoint  $s_i = x_{i-1}$  of each subinterval, a right sum, the right endpoint, the upper sum (U) takes the maximum value of  $f$  in each subinterval, and the minimum value (L) of  $f$  in each subinterval, the minimum value (L) of  $f$  in each subinterval, the maximum value (U) of  $f$  in each subinterval, and the average value (A) of  $f$  in each subinterval is the left sum (lower bound) in decreasing on the interval:  $\sum_{i=1}^n [m_i(x_i - x_{i-1}) + f(s_i)\Delta x]$ .



**Definite Integral.** The definite integral of  $f$  from  $a$  to  $b$  may be denoted as  $\int_a^b f(x) dx$  or  $\int_a^b f(x) dx$ . The limit is used to mean if some number  $R$  can be called the integral value for the following: every  $\epsilon > 0$ , there is a  $\delta$  such that all Riemann sums on partitions of  $[a, b]$  with norm less than  $\delta$  differ from  $R$  by less than  $\epsilon$ . It then is said that  $R$  is the limit, and the function is said to be integrable and the value is denoted  $\int_a^b f(x) dx$  or  $\int_a^b f(x) dx$ . The function must be bounded on the integrable. The function  $f$  is called the integrand and the points  $a$  and  $b$  are called the lower limit and upper limit of integration, respectively. The most integral value is the function of  $f$  from  $f$  and  $[a, b]$  as well as to the resulting value of  $f$  from  $f$ .

**Substitution.** An antiderivative of a function  $f$  is a function  $F$  whose derivative is  $f$ . A constant  $C$  may be added to any antiderivative of a function on an interval, often by a constant in consequence of the Mean Value Theorem. E.g., both  $\frac{1}{2}x^2 + C_1$  and  $\frac{1}{2}x^2 + C_2$  are antiderivatives of  $x$ , differing by  $\frac{1}{2}x^2$ . The indefinite integral of a function  $f$ , denoted  $\int f(x) dx$ , is an expression for the family of antiderivatives on a general (often unspecified) interval. E.g., for  $f(x) = x - 2$ , or for  $x > 0$ ,  $\int (x - 2) dx = \frac{1}{2}x^2 - 2x + C$ .

The constant  $C$ , which may have any real value, is the constant of integration. Computer programs, and other tools, may omit the constant, it being understood by the user. It is important to note that the given antiderivative is just one representative of a class.

### INTERPRETATIONS

**Area under a curve.** If  $f$  is nonnegative and continuous on  $[a, b]$ , then  $\int_a^b f(x) dx$  gives the area between the curve and the x-axis. The area function  $A(x) = \int_a^x f(t) dt$  gives the area accumulated up to  $x$ . If  $f$  is negative, the integral is the negative of the area.

**Average value.** The average value of  $f$  over an interval  $[a, b]$  may be defined by average value  $= \frac{1}{b-a} \int_a^b f(x) dx$ . A rough estimate of an integral may be made by estimating the average value, the bounding the graph and multiplying it by the length of the interval. This idea is known as the Mean Value Theorem, as the Mean Value Theorem states that the average value of a function over an interval is equal to the value of the function at some point in the interval. E.g., if  $f(x) = x^2$  on  $[1, 2]$ , the average value is  $\frac{1}{2-1} \int_1^2 x^2 dx = \frac{1}{1} [\frac{1}{3}x^3]_1^2 = \frac{1}{3}(8 - 1) = \frac{7}{3}$ . The average value of  $f$  is  $\frac{7}{3}$ , which is the value of  $f$  at  $x = \frac{7}{3}$  on the interval  $[1, 2]$ .

**Integral as a slope.** The integral of a function  $f$  over an interval  $[a, b]$  is the slope of the line tangent to the curve  $F(x) = \int_a^x f(t) dt$  at  $x = b$ . The graph of the antiderivative is called an integral curve of the slope field.

**Antiderivative as a slope field.** The antiderivative of a function  $f$  is a function  $F$  such that  $F'(x) = f(x)$ . The graph of the antiderivative is called an integral curve of the slope field.

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### THEORY

**Integration as a process.** A continuous function on a closed interval is integrable. Integrability on  $[a, b]$  implies integrability on closed subintervals of  $[a, b]$ . Assuming  $f$  is integrable on  $[a, b]$  and  $[c, d]$ , then  $\int_a^b f(x) dx = \int_a^c f(x) dx + \int_c^b f(x) dx$ . Use this to check integral evaluations with rough estimates or antiderivatives.

#### Basic Integral Bounds



If  $f$  is nonnegative, then  $\int_a^b f(x) dx$  is nonnegative. If  $f$  is integrable on  $[a, b]$ , then so is  $f^2$  and  $\int_a^b f^2(x) dx \geq (\int_a^b f(x) dx)^2$ .

**Fundamental Theorem of Calculus.** One part of the theorem is used to evaluate integrals. If  $f$  is continuous on  $[a, b]$  and  $F$  is an antiderivative of  $f$  on that interval, then  $\int_a^b f(x) dx = F(b) - F(a)$ . The other part of the theorem states that if  $f$  is continuous on  $[a, b]$ , then  $F(x) = \int_a^x f(t) dt$  is an antiderivative of  $f$  on  $[a, b]$ .

**Antiderivative of a function.** An antiderivative of  $f$  on  $[a, b]$  is a function  $F$  such that  $F'(x) = f(x)$  for all  $x$  in  $[a, b]$ .

#### Fundamental Theorem



**Antiderivatives of integrals.** Functions are often defined as integrals. E.g., the "area integral function" is  $F(x) = \int_a^x f(t) dt$ . To differentiate such, use the second part of the Fundamental Theorem. **Antiderivatives.** A function such as  $\int_a^x f(t) dt$  is a composite involving  $A(x) = \int_a^x f(t) dt$ . To differentiate, use the chain rule and the fundamental theorem:  $\frac{d}{dx} \int_a^x f(t) dt = f(x)$ . **Chain rule theorem for integrals.** If  $f$  and  $g$  are continuous on  $[a, b]$ , then there is a  $c$  in  $[a, b]$  such that  $\int_a^b f(x)g(x) dx = f(c) \int_a^b g(x) dx$ . In the case  $g(x) = 1$ , the average value of  $f$  is stated as  $f(c) = \frac{1}{b-a} \int_a^b f(x) dx$ .

#### NET for Integrals



**Change of variable theorem.** An integral and limits of integration can be changed to make an integral easier to approach or evaluate. In effect, the "area" is merely redistributed without changing the integral value. If  $f$  is a function with continuous derivatives and  $f'$  is continuous, then  $\int_a^b f(x) dx = \int_{g(a)}^{g(b)} f(g(t)) g'(t) dt$ , where  $a$  and  $b$  are points with  $g(a) = a$  and  $g(b) = b$ . In practice, substitutions are applied to complex integrals, and that result is then used to evaluate the integral. E.g.,  $\int_0^1 x \sqrt{1-x^2} dx = \int_0^1 \frac{1}{2} \sqrt{1-u^2} du$ , which becomes  $\int_0^1 \frac{1}{2} \sqrt{1-u^2} du$ . The formula is often used to evaluate, starting with  $\int_0^1 x \sqrt{1-x^2} dx = \int_0^1 \frac{1}{2} \sqrt{1-u^2} du$ . See the derivation on page 2.

**Variable Substitution.** A rigorous definition is that  $\int_a^b f(x) dx = \int_{g(a)}^{g(b)} f(g(t)) g'(t) dt$ . The change of variable formula with  $u = g(t)$  yields  $\int_a^b f(x) dx = \int_{g(a)}^{g(b)} f(u) \frac{du}{g'(t)}$ , showing that  $\frac{du}{g'(t)} = \frac{1}{g'(t)} du$ . The other elementary properties of the integral may also be derived for such a derived from the definition. In this approach, as inverse functions is defined and is defined to be the second derivative of  $f$ .



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