

## Integration

### Riemann Sum

The primary application of integration is to determine the area between a function and the  $x$ -axis. A **Riemann sum** is an approximation of this area that is found using rectangles.

A Riemann sum of a function  $f$  defined on the interval  $[a, b]$  is determined by a partition, which is a finite division of  $[a, b]$  into subintervals. This interval is typically expressed by  $a = x_0 < x_1 < x_2 < \dots < x_n = b$  and a sampling of points with one point from each subinterval, for example,  $c_i$ , from  $[x_{i-1}, x_i]$ . The associated

$$\text{Riemann sum is } \sum_{i=1}^n f(c_i)(x_i - x_{i-1}).$$

A regular partition has subintervals of the same length. If  $\Delta x = \frac{b-a}{n}$  and  $x_i = a + i\Delta x$ , a partition's points is its successive subinterval length. A **left sum** takes the left endpoint  $c_i = x_{i-1}$  of each subinterval, whereas a **right sum** takes the right endpoint.

**EX:** The sum of the areas of the rectangles that graph represents a left Riemann sum of  $f(x)$  on the interval  $[0, 10]$  using partitions that are 2 units wide.



**EX:** The sum of the areas of the rectangles that graph represents a right Riemann sum of  $f(x)$  on the interval  $[0, 10]$  using partitions that are 2 units wide.

An upper sum of a continuous function,  $f$ , takes a point  $c_i$  in each subinterval where the maximum value of  $f$  is achieved. A lower sum takes the minimum value of  $f$  for each subinterval.

### Definite Integral

As the partition of a Riemann sum gets smaller and smaller, the area approximation gets closer and closer to the actual area under the curve. The **definite integral** of  $f$  on the interval  $[a, b]$  is defined as  $\int_a^b f(x) dx = \lim_{n \rightarrow \infty} \sum_{i=1}^n f(c_i)(x_i - x_{i-1})$ .

The expression to be integrated,  $f(x)$ , is called the **integrand**. The definite integral exists when  $f$  is continuous on  $[a, b]$ . Then the function is said to be **integrable**.

### Antiderivative

The **antiderivative** of a function  $f$  is a function  $F$  whose derivative is  $f$ ,  $F'(x) = f(x)$ , for all  $x$  in some domain, normally an interval. Any two antiderivatives of a function on an interval differ by a constant.

**EX:** The functions  $\sin x + C$ ,  $x^2 + 2x + 1$  and  $\ln|x+1| + C$ , for  $-1 < x < 1$  are both antiderivatives of  $\cos x = 2x + 1$  because  $\frac{d}{dx}(\sin x + C) = \cos x$  and  $\frac{d}{dx}(x^2 + 2x + 1) = 2x + 1$ .

The **indefinite integral** of a function,  $f$ , is denoted  $\int f(x) dx$  and represents the family of antiderivatives of a typical value, typically  $x$ .

**EX:**  $\int \frac{1}{x^2+1} dx = \arctan(x) + C$ , where  $C$  is a constant called the constant of integration.

### Mean Value Theorem

Let  $f$  be a continuous function on the interval  $[a, b]$ . Then there exists a number  $c$  in  $(a, b)$  such that  $\int_a^b f(x) dx = (b-a)f(c)$ .

In other words,  $f(c)$  is the average value of  $f$  on  $[a, b]$ .

### Mean Value Theorem for Integrals



### Fundamental Theorem of Calculus

There are two parts to the **Fundamental Theorem of Calculus**.

**1. First Part (Evaluating Integrals)** If  $f$  is a continuous function on  $[a, b]$ , and  $F$  is an antiderivative of  $f$  on that interval, then  $\int_a^b f(x) dx = F(b) - F(a)$ .

**EX:** Evaluate  $\int_1^4 x^2 + 3x dx$  given that  $\int x^2 + 3x dx = \frac{1}{3}x^3 + \frac{3}{2}x^2 + C$ .

$$\begin{aligned} \int_1^4 x^2 + 3x dx &= F(4) - F(1) \\ &= \left(\frac{1}{3}(4)^3 + \frac{3}{2}(4)^2\right) - \left(\frac{1}{3}(1)^3 + \frac{3}{2}(1)^2\right) \\ &= 28\frac{2}{3} - 1\frac{1}{6} \\ &= 27\frac{1}{2} \end{aligned}$$

The area of the shaded region between  $f(x)$  and the  $x$ -axis on  $[1, 4]$  is  $27\frac{1}{2}$  square units.

### Area of a Shaded Region



**2. Second Part (Evaluating Antiderivatives)**

If  $f$  is a continuous function on  $[a, b]$ , then the function  $F(x) = \int_a^x f(t) dt$  is an antiderivative of  $f$  on  $[a, b]$  and  $F'(x) = f(x)$ .

**EX:**  $\int_0^1 (x^2 + 2x) dx = \frac{1}{3}x^3 + x^2 = \frac{1}{3} + 1 = \frac{4}{3}$ .

## Interpretation of Integrals

### Area Under a Curve

If  $f$  is nonnegative and continuous on  $[a, b]$ , then  $F(x) = \int_a^x f(t) dt$  gives the area between the graph of the function and the  $x$ -axis.

The **area function**,  $A(x) = \int_a^x f(t) dt$ , gives the accumulated area on the interval from  $a$  up to  $x$ . If  $f$  is negative, the integral is the opposite of the area.

### Average Value

The average value of  $f$  over an interval  $[a, b]$  is defined by the expression

$$\text{average value} = \frac{1}{b-a} \int_a^b f(x) dx$$

**EX:** Find the average value of  $f(x) = \cos(x)$  on the interval  $[0, \pi]$ .

$$\begin{aligned} \text{average value} &= \frac{1}{\pi - 0} \int_0^\pi \cos(x) dx \\ &= \frac{1}{\pi} [\sin(x)]_0^\pi \\ &= \frac{1}{\pi} (\sin(\pi) - \sin(0)) = 0 \end{aligned}$$

The average value of  $f(x)$  on the interval  $[0, \pi]$  is  $\frac{1}{\pi} \int_0^\pi \cos(x) dx$ .

A rough estimate of an integral may be made by approximating the average value of the function (by computing and multiplying it by the length of the interval).

### Accumulated Change

The integral of rates of change of a quantity over a time interval gives the total change in the quantity over the time interval.

**EX:** Let  $s(t)$  represent the position of an object as a function of time. Then  $s'(t) = v(t)$  represents the velocity (the rate of change of position) of the object. Furthermore,  $\int_{t_0}^{t_1} v(t) dt$  approximates the approximate displacement according to the time measured from  $t_0$  to  $t_1$ .

Adding the displacements for all time increments gives the approximate change in position over the entire time interval. In the limit of small time increments, the exact total displacement (or increment) is found:  $\int_{t_0}^{t_1} v(t) dt = s(t_1) - s(t_0)$ .

### Area Under a Curve



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## **Table of Contents Calculus 2 Quickstudy Academic**

1. Understanding the eBook Calculus 2 Quickstudy Academic
  - The Rise of Digital Reading Calculus 2 Quickstudy Academic
  - Advantages of eBooks Over Traditional Books
2. Identifying Calculus 2 Quickstudy Academic
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Calculus 2 Quickstudy Academic
  - User-Friendly Interface
4. Exploring eBook Recommendations from Calculus 2 Quickstudy Academic
  - Personalized Recommendations
  - Calculus 2 Quickstudy Academic User Reviews and Ratings
  - Calculus 2 Quickstudy Academic and Bestseller Lists
5. Accessing Calculus 2 Quickstudy Academic Free and Paid eBooks
  - Calculus 2 Quickstudy Academic Public Domain eBooks
  - Calculus 2 Quickstudy Academic eBook Subscription Services

- Calculus 2 Quickstudy Academic Budget-Friendly Options
- 6. Navigating Calculus 2 Quickstudy Academic eBook Formats
  - ePub, PDF, MOBI, and More
  - Calculus 2 Quickstudy Academic Compatibility with Devices
  - Calculus 2 Quickstudy Academic Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Calculus 2 Quickstudy Academic
  - Highlighting and Note-Taking Calculus 2 Quickstudy Academic
  - Interactive Elements Calculus 2 Quickstudy Academic
- 8. Staying Engaged with Calculus 2 Quickstudy Academic
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Calculus 2 Quickstudy Academic
- 9. Balancing eBooks and Physical Books Calculus 2 Quickstudy Academic
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Calculus 2 Quickstudy Academic
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Calculus 2 Quickstudy Academic
  - Setting Reading Goals Calculus 2 Quickstudy Academic
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Calculus 2 Quickstudy Academic
  - Fact-Checking eBook Content of Calculus 2 Quickstudy Academic
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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