

CALCULUS 2

INTEGRAL & DIFFERENTIAL CALCULUS FOR ADVANCED STUDENTS

INTEGRATION

DEFINITIONS

Definition: The definite integral expresses the idea of adding the values of a function over a continuous interval.

Definition: A regular partition of an interval $[a, b]$ is a partition of $[a, b]$ into n subintervals of equal length $\Delta x = \frac{b-a}{n}$. The points x_0, x_1, \dots, x_n are called the partition points.

A regular partition of an interval $[a, b]$ into n subintervals of equal length $\Delta x = \frac{b-a}{n}$ is shown in the figure. The points x_0, x_1, \dots, x_n are called the partition points. The width of each subinterval is $\Delta x = \frac{b-a}{n}$. The height of each subinterval is $f(x_i)$. The area of each subinterval is $f(x_i) \Delta x$. The total area is $\sum_{i=1}^n f(x_i) \Delta x$.



Definition: The definite integral of a function $f(x)$ over the interval $[a, b]$ is denoted by $\int_a^b f(x) dx$. The function $f(x)$ is called the integrand and the points a and b are called the lower limit and upper limit of integration, respectively. The value is denoted by $\int_a^b f(x) dx$.

Definition: A function $f(x)$ is said to be integrable on the interval $[a, b]$ if the definite integral $\int_a^b f(x) dx$ exists. The Riemann sum approximation of the definite integral is given by $\sum_{i=1}^n f(x_i) \Delta x$.

The constant C , which may have any real value, is the constant of integration. Computer programs, and other tools, may assist the student in finding antiderivatives for the integrands.

INTERPRETATIONS

Interpretation: The definite integral $\int_a^b f(x) dx$ gives the area between the curve $y = f(x)$ and the x-axis. If $f(x) > 0$, the area is positive. If $f(x) < 0$, the area is negative. The total area is the sum of the positive and negative areas.

Interpretation: The definite integral $\int_a^b f(x) dx$ can be interpreted as the average value of $f(x)$ over the interval $[a, b]$. The average value is given by $\frac{1}{b-a} \int_a^b f(x) dx$.

Interpretation: The definite integral $\int_a^b f(x) dx$ can be interpreted as the total change in a quantity over the interval $[a, b]$. For example, if $f(x)$ is velocity, then $\int_a^b f(x) dx$ is displacement.

THEORY

Theorem: A function $f(x)$ is continuous on the interval $[a, b]$ if and only if it is integrable on $[a, b]$. The definite integral of a function $f(x)$ over the interval $[a, b]$ is denoted by $\int_a^b f(x) dx$.



Definition: The definite integral $\int_a^b f(x) dx$ is the limit of the Riemann sum as $n \rightarrow \infty$. The function $f(x)$ is called the integrand and the points a and b are called the lower limit and upper limit of integration, respectively.

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Terry C. Jones



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