

Basic Integration Formulas and the Substitution Rule

1 The second fundamental theorem of integral calculus

Recall from the last lecture the second fundamental theorem of integral calculus.

Theorem Let $f(x)$ be a continuous function on the interval $[a,b]$. Let $F(x)$ be any function with the property that

$$F'(x) = f(x)$$

Then

$$\int_a^b f(x) dx = F(b) - F(a)$$

2 Antiderivatives

Let us now see how the second fundamental theorem gets applied to solve area problems.

Example Compute

$$\int_{10}^{20} \frac{1}{x^2} dx$$

According to the theorem, we need to find a function $F(x)$ with the property

$$F'(x) = 1/x^2$$

Such a function is called an anti-derivative of $1/x^2 = x^{-2}$. We can see that one possible solution is

$$F(x) = -x^{-1}$$

From the theorem

$$\int_{10}^{20} \frac{1}{x^2} dx = F(20) - F(10) = (- (20)^{-1}) - (- (10)^{-1}) = \frac{1}{20}$$

Unfortunately, this anti-differentiation process is not always easy to do.

Basic Integration Formulas And The Substitution Rule

Alexander Altland, Jan von Delft



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Integration For Calculus, Analysis, And Differential Equations: Techniques, Examples, And Exercises Marat V Markin, 2018-07-13 The book assists Calculus students to gain a better understanding and command of integration and its applications. It reaches to students in more advanced courses such as Multivariable Calculus, Differential Equations and Analysis where the ability to effectively integrate is essential for their success. Keeping the reader constantly focused on the three principal epistemological questions: What for? Why? and How? the book is designated as a supplementary instructional tool and consists of: The Answers to all the 192 Problems are provided in the Answer Key. The book will benefit undergraduates, advanced undergraduates and members of the public with an interest in science and technology helping them to master techniques of integration at the level expected in a calculus course.

Mathematics for Physicists Alexander Altland, Jan von Delft, 2019-02-14 This textbook is a comprehensive introduction to the key disciplines of mathematics: linear algebra, calculus and geometry needed in the undergraduate physics curriculum. Its leitmotiv is that success in learning these subjects depends on a good balance between theory and practice. Reflecting this belief, mathematical foundations are explained in pedagogical depth and computational methods are introduced from a physicist's perspective and in a timely manner. This original approach presents concepts and methods as inseparable entities facilitating in depth understanding and making even advanced mathematics tangible. The book guides the reader from high school level to advanced subjects such as tensor algebra, complex functions and differential geometry. It contains numerous worked examples, info sections providing context, biographical boxes, several detailed case studies, over 300 problems and fully worked solutions for all odd numbered problems. An online solutions manual for all even numbered problems will be made.

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