

## Table Of Integrals Integral Table

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[Integration Using Tables](#) 8.6 Integration by Tables [13 Math 1242 004 Sec 6 4 More on Integration with Tables](#) Integration using tables Integration Tables - Integration Requiring U-substitution Involving  $\sqrt{u^2+a^2}$  Other Integration Strategies - Table of integrals Ex. 2 Table Of Integrals Integral Table Table of Integrals. Table of Integrals . Basic Forms  $\int x^n dx = \frac{1}{n+1} x^{n+1}$  (1)  $\int \frac{1}{x} dx = \ln|x|$  (2)  $\int u dv = uv - \int v du$  (3)  $\int \frac{1}{ax+b} dx = \frac{1}{a} \ln|ax+b|$  (4) Integrals of Rational Functions  $\int \frac{1}{(x+a)^2} dx = -\frac{1}{x+a}$  (5)  $\int (x+a)^n dx = \frac{(x+a)^{n+1}}{n+1}$ .

### Table of Integrals

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### Table of Integrals - Department of Physics

Table of Integrals BASIC FORMS (1)  $\int x^n dx = \frac{1}{n+1} x^{n+1}$  (2)  $\int \frac{1}{x} dx = \ln|x|$  (3)  $\int u dv = uv - \int v du$  (4)  $\int u(x)v'(x) dx = u(x)v(x) - \int v(x)u'(x) dx$  RATIONAL FUNCTIONS (5)  $\int \frac{1}{ax+b} dx = \frac{1}{a} \ln|ax+b|$  (6)  $\int \frac{1}{(x+a)^2} dx = -\frac{1}{x+a}$  (7)  $\int (x+a)^n dx = \frac{(x+a)^{n+1}}{n+1}$  (8)  $\int \frac{1}{x(x+a)} dx = \frac{1}{a} \ln\left|\frac{x}{x+a}\right|$  (9)  $\int \frac{1}{1+x^2} dx = \tan^{-1}x$  (10)  $\int \frac{1}{a^2+x^2} dx = \frac{1}{a} \tan^{-1}\left(\frac{x}{a}\right)$  (11)  $\int \frac{1}{x^2+a^2} dx = \frac{1}{a} \ln\left|\frac{x+ia}{x-ia}\right|$  (12)  $\int \frac{1}{x^2+a^2} dx = \frac{1}{a} \operatorname{atan}^{-1}\left(\frac{x}{a}\right)$

### Table of Integrals - UMD

Basic Integrals. 1.  $\int u^n du = \frac{u^{n+1}}{n+1} + C, n \neq -1$ . 2.  $\int \frac{1}{u} du = \ln|u| + C$ . 3.  $\int e^u du = e^u + C$ . 4.  $\int a^u du = \frac{a^u}{\ln a} + C$ . 5.  $\int \sin u du = -\cos u + C$ . 6.  $\int \cos u du = \sin u + C$ . 7.  $\int \sec^2 u du = \tan u + C$ . 8.  $\int \csc^2 u du = -\cot u + C$ .

### A Table of Integrals - Calculus Volume 2 | OpenStax

Table of Integrals. Basic Integrals | Rational Integrals | Trigonometric Integrals. 1.  $\int x^n dx = \frac{x^{n+1}}{n+1} + C, n \neq -1$ . 
$$\int x^n dx = \frac{x^{n+1}}{n+1} + C, n \neq -1$$

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$n+1x^{n+1}..$

## Table of Integrals - MathCracker.com

Table of Basic Integrals (1)  $\int x^n dx = \frac{1}{n+1} x^{n+1}; n \neq -1$  (2)  $\int \frac{1}{x} dx = \ln|x|$  (3)  $\int u dv = uv - \int v du$  (4)  $\int e^x dx = e^x$  (5)  $\int \frac{1}{ax} dx = \frac{1}{a} \ln|ax|$  (6)  $\int \ln x dx = x \ln x - x$  (7)  $\int \sin x dx = -\cos x$  (8)  $\int \cos x dx = \sin x$  (9)  $\int \tan x dx = -\ln|\sec x|$  (10)  $\int \sec x dx = \ln|\sec x + \tan x|$  (11)  $\int \sec^2 x dx = \tan x$  (12)  $\int \sec x \tan x dx = \sec x$  (13)  $\int \frac{1}{a^2+x^2} dx = \frac{1}{a} \tan^{-1} \frac{x}{a}$  (14)  $\int \frac{1}{a^2-x^2} dx = \frac{1}{2a} \ln \left| \frac{a+x}{a-x} \right|$

## Table of Basic Integrals

Table of Basic Integrals Basic Forms (1)  $\int x^n dx = \frac{1}{n+1} x^{n+1}; n \neq -1$  (2)  $\int \frac{1}{x} dx = \ln|x|$  (3)  $\int u dv = uv - \int v du$  (4)  $\int \frac{1}{ax+b} dx = \frac{1}{a} \ln|ax+b|$  Integrals of Rational Functions (5)  $\int \frac{1}{(x+a)^2} dx = -\frac{1}{x+a}$  (6)  $\int \frac{1}{(x+a)^n} dx = \frac{(x+a)^{-n+1}}{-n+1}; n \neq 1$  (7)  $\int \frac{x}{(x+a)^n} dx = \frac{(x+a)^{-n+1}}{(n-1)} \left( \frac{x}{n-1} - \frac{1}{n-1} \right)$  (8)  $\int \frac{1}{1+x^2} dx = \tan^{-1} x$  (9)  $\int \frac{1}{a^2+x^2} dx = \frac{1}{a} \tan^{-1} \frac{x}{a}$

## Table of Basic Integrals Basic Forms

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## Table of Basic Integrals

An even larger, multivolume table is the Integrals and Series by Prudnikov, Brychkov, and Marichev (with volumes 1 – 3 listing integrals and series of elementary and special functions, volume 4 – 5 are tables of Laplace transforms).

## Lists of integrals - Wikipedia

There have been visitors to [integral-table.com](http://integral-table.com) since 2004. The clustrmap is periodically (and automatically) archived and its counters reset, so the total is smaller. Not to mention their servers gave up the ghost turned into Zombies on 25 March 2015 (Brains!

## Integral Table

The following is a list of integrals (antiderivative functions) of rational functions. Any rational function can be integrated by partial fraction decomposition of the function into a sum of functions of the form:  $\frac{A}{x-a}$ , and  $\frac{Bx+C}{x^2+px+q}$ , which can then be integrated term by term. For other types of functions, see lists of integrals

## List of integrals of rational functions - Wikipedia

Table of Integrals \* Basic Forms  $\int x^n dx = \frac{1}{n+1} x^{n+1}$  (1)  $\int \frac{1}{x} dx = \ln|x|$  (2)  $\int u dv = uv - \int v du$  (3)  $\int \frac{1}{ax+b} dx = \frac{1}{a} \ln|ax+b|$  (4) Integrals of Rational Functions  $\int \frac{1}{(x+a)^2} dx = -\frac{1}{x+a}$  (5)  $\int \frac{1}{(x+a)^n} dx = \frac{(x+a)^{-n+1}}{-n+1}; n \neq 1$  (6)  $\int \frac{x}{(x+a)^n} dx = \frac{(x+a)^{-n+1}}{(n-1)} \left( \frac{x}{n-1} - \frac{1}{n-1} \right)$  (7)  $\int \frac{1}{1+x^2} dx = \tan^{-1} x$  (8)  $\int \frac{1}{a^2+x^2} dx = \frac{1}{a} \tan^{-1} \frac{x}{a}$  (9)  $\int \frac{x}{a^2+x^2} dx = \frac{1}{2} \ln|a^2+x^2|$  (10)  $\int \frac{x^2}{a^2+x^2} dx = x - a \tan^{-1} \frac{x}{a}$  (11)  $\int \frac{x^3}{a^2+x^2} dx = \frac{1}{2} x^2 - a \tan^{-1} \frac{x}{a} + \frac{a^2}{2} \ln|a^2+x^2|$  ...

## integral tables.pdf - Table of Integrals Basic Forms ...

In mathematics, the definite integral:  $\int_a^b f(x) dx$  is the area of the region in the xy-plane bounded by the graph of f, the x-axis, and the lines  $x = a$  and  $x = b$ , such that area above the x-axis adds to the total, and that below the x-axis subtracts from the total.. The fundamental theorem of calculus establishes the relationship between indefinite and definite integrals and introduces a technique for ...

## List of definite integrals - Wikipedia

Table of Integrals Basic Forms  $\int x^n dx = \frac{1}{n+1} x^{n+1}$  (1)  $\int \frac{1}{x} dx = \ln|x|$  (2)  $\int u dv = uv - \int v du$  (3)  $\int \frac{1}{ax+b} dx = \frac{1}{a} \ln|ax+b|$  (4) Integrals of Rational Functions  $\int \frac{1}{(x+a)^2} dx = -\frac{1}{x+a}$  (5)  $\int \frac{1}{(x+a)^n} dx = \frac{(x+a)^{-n+1}}{-n+1}; n \neq 1$  (6)  $\int \frac{x}{(x+a)^n} dx = \frac{(x+a)^{-n+1}}{(n-1)} \left( \frac{x}{n-1} - \frac{1}{n-1} \right)$  (7)  $\int \frac{1}{1+x^2} dx = \tan^{-1} x$  (8)  $\int \frac{1}{a^2+x^2} dx = \frac{1}{a} \tan^{-1} \frac{x}{a}$

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$dx = \frac{1}{a} \tan^{-1} \left( \frac{x-a}{a} \right) \frac{1}{a} dx$  ...

Table of Integrals - Rice University

Table of Integrals This integral table contains hundreds of expressions: indefinite and definite integrals of elliptic integrals, of square roots, arcustangents and a few more exotic functions. Most of them are not found in Gradshteyn-Ryzhik.

Table of definite Integrals elliptic Integral

The Table of Integrals, Series, and Products is the major reference source for integrals in the English language. It is essential for mathematicians, scientists, and engineers, who rely on it when identifying and subsequently solving extremely complex problems.

Table of Integrals, Series, and Products, Sixth Edition: I ...

A lot of the integrals in this section can easily be done using a Table of Integrals. (Of course, use a computer to do integrals whenever you can!) Points to note: It's very important to understand the substitutions  $u$  and  $du$  (which is the case for most integrations) Make sure you use the correct formula!! Some are very similar to others.

9. Table of Integrals - Interactive Mathematics

Gradshteyn and Ryzhik (GR) is the informal name of a comprehensive table of integrals originally compiled by the Russian mathematicians I. S. Gradshteyn and I. M. Ryzhik. Its full title today is Table of Integrals, Series, and Products.

Gradshteyn and Ryzhik - Wikipedia

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