

Table of Integrals

John Wiley & Sons Inc - Table of Integrals

Description: -

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$f(x)$	$\int f(x) dx$	$f(x)$	$\int f(x) dx$
x^n	$\frac{x^{n+1}}{n+1}$ ($n \neq -1$)		
$\frac{1}{x}$	$\ln x $		
a^x	$\frac{a^x}{\ln a}$ ($a > 0$)		
$\sin x$	$-\cos x$	$\sinh x$	$\cosh x$
$\cos x$	$\sin x$	$\cosh x$	$\sinh x$
$\tan x$	$\ln \sec x $	$\tanh x$	$\ln \cosh x $
$\operatorname{cosec} x$	$\ln\left \tan \frac{x}{2}\right $	$\operatorname{cosech} x$	$\ln\left \tanh \frac{x}{2}\right $
$\sec x$	$\ln \sec x + \tan x $	$\operatorname{sech} x$	$2 \tanh^{-1} e^{-x}$
$\cot x$	$\ln \sin x $	$\coth x$	$\ln \sinh x $
$\sin^2 x$	$\frac{x}{2} - \frac{\sin 2x}{4}$	$\sinh^2 x$	$\frac{\sinh 2x}{4} - \frac{x}{2}$
$\cos^2 x$	$\frac{x}{2} + \frac{\sin 2x}{4}$	$\cosh^2 x$	$\frac{\sinh 2x}{4} + \frac{x}{2}$
$\frac{1}{a^2 + x^2}$	$\frac{1}{a} \tan^{-1} \frac{x}{a}$ ($a > 0$)	$\frac{1}{x^2 - a^2}$	$\frac{1}{2a} \tanh^{-1} \frac{x}{a}$ ($0 < x < a$)
$\frac{1}{\sqrt{a^2 - x^2}}$	$\sin^{-1} \frac{x}{a}$ ($-a < x < a$)	$\frac{1}{x^2 - a^2}$	$\frac{1}{2a} \coth^{-1} \frac{x}{a}$ ($ x > a > 0$)
		$\frac{1}{\sqrt{a^2 + x^2}}$	$\sinh^{-1} \frac{x}{a}$ ($x > a > 0$)

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Notes: -

This edition was published in December 1917



Filesize: 54.19 MB

Tags: #Calculus #II

Table of Integrals

You should verify any formulas you use before using or publishing any derivative results. Among those individuals are and I apologize for spelling errors - many names are incomplete and are based only on email addresses : Daniel Ajoy; Andrea Bajo; James Duley; Johannes Ebke; Stephen Gilmore; Peter Kloeppel; Larry Morris Gregg Quarles; LS Rigo; Nicole Ritzert Stephen Russ; Jim Swift; Vedran Veky Čačić; Bruce Weems; Justin Winokur; Come de Witt; Phillipe Xul ; Jose Antonio Alvarez Loyo Yates. Too many students try to find the right one in the table, but have no idea what they are doing! If the interval is infinite the definite integral is called an improper integral and defined by using appropriate limiting procedures.

Integral Calculator • With Steps!

Integrals that cannot be expressed using elementary functions can be manipulated symbolically using general functions such as the. There are several web sites which have tables of integrals and integrals on demand. These tables, which contain mainly integrals of elementary functions, remained in use until the middle of the 20th century.

Calculus II

Outside of that however, most sections will have at most one definite integral example and some sections will not have any definite integral examples. No support for its development was provided, nor is any support for its continued maintenance provided by California State University, Northridge, or by any other governmental or non-governmental agency. The integral table in the frame above was produced TeX4ht for MathJax using the command sh.

Integral Calculus

Mathematical handbook of formulas and tables 3rd ed. This leaflet will help you solve calculus problems and make calculus homework easier. Determining if they have finite values will, in fact, be one of the major topics of this section.

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