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integrals series and
products math eq 1

~~5.2.3 - Estimating
definite integrals from
tables~~

2.E4- Tables of Integrals
Integration with Tables

~~Integration By Parts -
Tabular Method Calc -~~

8.6 - Integration by
Tables and Other
Integration Techniques

~~Integration by Parts...~~
How? (NancyPi) Math

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2B. Calculus. Lecture
14. Strategy for
Integration How to add
a table summary How
to Integrate Using U-
Substitution (NancyPi)

How to integrate by
partial fractions Q63,
~~FAST WAY TO DO
PARTIAL FRACTION
FOR INTEGRALS~~

integration by parts, DI
method, VERY EASY

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Using Tables and

Computer Algebra

Systems Integration

using Computer

Algebra Systems (CAS)

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calculate Partial

Fractions of Integrals

Other Integration

Strategies - Table of

integrals Ex. 1 How to

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substitution Involving
 $\sqrt{u^2+a^2}$ Other
Integration Strategies -
Table of integrals Ex. 2
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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 $\int \frac{1}{(x+a)^2} dx = -\frac{1}{x+a}$

$(5) \int (x+a)^n dx = \frac{(x+a)^{n+1}}{n+1}$

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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)

$\int \frac{1}{(x+a)^{n+1}} dx = -\frac{1}{n(x+a)^n}$

$\int \frac{1}{(x+a)^n} dx = \frac{1}{(n-1)(x+a)^{n-1}}$

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BASIC FORMS

$$(1) \int x^n dx = \frac{1}{n+1} x^{n+1}$$

$$(2) \int \frac{1}{x} dx = \ln x$$

$$(3) \int u dv = uv - \int v du \quad (4) \int u(x)$$

$$v'(x) dx = u(x)v(x) - \int v(x)u'(x) dx$$

RATIONAL

FUNCTIONS (5) $\int \frac{1}{ax+b} dx = \frac{1}{a} \ln(ax+b)$

$$(6) \int \frac{1}{(x+a)^2} dx = -\frac{1}{x+a}$$

$$(7) \int \frac{1}{(x+a)^n} dx = \frac{(x+a)^{1-n}}{1-n}$$

$$(8) \int \frac{1}{x(x+a)^n} dx = \frac{1}{a} \ln|x| - \frac{1}{a} \int \frac{1}{(x+a)^n} dx$$

$$(9) \int \frac{1}{x^2(x+a)^n} dx = -\frac{1}{x} + \frac{1}{a} \int \frac{1}{(x+a)^n} dx$$

$$(10) \int \frac{1}{x(x+a)^n} dx = \frac{1}{a} \ln|x| - \frac{1}{a} \int \frac{1}{(x+a)^n} dx$$

$$(11) \int \frac{1}{x^2(x+a)^n} dx = -\frac{1}{x} + \frac{1}{a} \int \frac{1}{(x+a)^n} dx$$

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$$\frac{dx}{\sqrt{1+x^2}} = \tan^{-1} x \quad (9)$$

$$\frac{dx}{\sqrt{a^2+x^2}} = \frac{1}{a} \tan^{-1} \left(\frac{x}{a}\right) \quad (10)$$

$$\frac{x dx}{\sqrt{a^2+x^2}} = \frac{1}{2} \ln(a^2+x^2) \quad (11)$$

$$\frac{x^2 dx}{\sqrt{a^2+x^2}} = \frac{1}{2} x^2 \tan^{-1} \left(\frac{x}{a}\right) - \frac{a^2}{2} \tan^{-1} \left(\frac{x}{a}\right) + \frac{1}{2} x \sqrt{a^2+x^2} + C$$

$$\frac{dx}{\sqrt{a^2+x^2}} = \frac{1}{a} \ln \left| \frac{x + \sqrt{a^2+x^2}}{a} \right| + C \quad (12)$$

$$\frac{x^2 dx}{\sqrt{a^2+x^2}} = \frac{1}{2} x^2 \tan^{-1} \left(\frac{x}{a}\right) - \frac{a^2}{2} \tan^{-1} \left(\frac{x}{a}\right) + \frac{1}{2} x \sqrt{a^2+x^2} + C$$

$$\frac{x^2 dx}{\sqrt{a^2+x^2}} = \frac{1}{2} x^2 \tan^{-1} \left(\frac{x}{a}\right) - \frac{a^2}{2} \tan^{-1} \left(\frac{x}{a}\right) + \frac{1}{2} x \sqrt{a^2+x^2} + C$$

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UMD

Basic Integrals. 1.

$$\int u^n du = \frac{u^{n+1}}{n+1} + C, \quad n \neq -1$$

$$\int \frac{du}{u} = \ln|u| + C$$

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$\int e^u du = e^u + C.$ 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 |

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Table of Integrals. Basic

Integrals | Rational

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Trigonometric Integrals.

$$\int x^n dx = \frac{x^{n+1}}{n+1} + C, \quad n \neq -1.$$

$$\int x^{-1} dx = \ln|x| + C.$$

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MathCracker.com

Table of Basic

Integrals
(1) $\int x^n dx = \frac{x^{n+1}}{n+1}; n \neq -1$
(2)

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$\int \frac{1}{x} dx = \ln|x|$ (3) $\int u dv = uv - \int v du$ (4) $\int e^x dx = e^x$ (5) $\int a^x dx = \frac{1}{\ln a} a^x$. (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) $\int \frac{1}{a^2 - x^2} dx = \frac{1}{2a} \ln \left| \frac{a+x}{a-x} \right|$.

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Integrals1

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) $\int \frac{x}{(x+a)^n} dx =$

$\frac{(x+a)^{-n+1}}{-n+1} - \frac{1}{(n-1)(x+a)^{n-1}}$

$\int \frac{x}{(x+a)^n} dx = \frac{(x+a)^{-n+1}}{-n+1} - \frac{1}{(n-1)(x+a)^{n-1}}$

$\int \frac{x}{(x+a)^n} dx = \frac{(x+a)^{-n+1}}{-n+1} - \frac{1}{(n-1)(x+a)^{n-1}}$

$\int \frac{x}{(x+a)^n} dx = \frac{(x+a)^{-n+1}}{-n+1} - \frac{1}{(n-1)(x+a)^{n-1}}$

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$$\int \frac{1}{x^2} dx = -\frac{1}{x} + C$$
$$\int \frac{1}{x^2 + a^2} dx = \frac{1}{a} \tan^{-1} \frac{x}{a} + C$$
$$\int \frac{1}{1 + x^2} dx = \tan^{-1} x + C$$

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).

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Lists of integrals -
Wikipedia

There have been visitors to 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

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25 March 2015 (Brains!

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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

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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) $\int \frac{1}{ax+b} dx = \frac{1}{a} \ln |ax+b|$

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(4) Integrals of Rational

Functions $\int \frac{1}{(x+a)^2} dx = -\frac{1}{x+a}$

(5) $\int (x+a)^n dx = \frac{(x+a)^{n+1}}{n+1}$, $n \neq -1$

(6) $\int \frac{x}{(x+a)^n} dx = \frac{(x+a)^{n-1}}{(n-1)}$

(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) $\int \frac{x^3}{a^2+x^2} dx = \frac{x^2}{2} - a \tan^{-1} \frac{x}{a}$

(12) $\int \frac{x^4}{a^2+x^2} dx = \frac{x^3}{3} - \frac{ax^2}{2} + a^2 \tan^{-1} \frac{x}{a}$

(13) $\int \frac{x^5}{a^2+x^2} dx = \frac{x^4}{4} - \frac{ax^3}{3} + \frac{a^2x^2}{2} - a^3 \tan^{-1} \frac{x}{a}$

(14) $\int \frac{x^6}{a^2+x^2} dx = \frac{x^5}{5} - \frac{ax^4}{4} + \frac{a^2x^3}{3} - \frac{a^3x^2}{2} + a^4 \tan^{-1} \frac{x}{a}$

(15) $\int \frac{x^7}{a^2+x^2} dx = \frac{x^6}{6} - \frac{ax^5}{5} + \frac{a^2x^4}{4} - \frac{a^3x^3}{3} + \frac{a^4x^2}{2} - a^5 \tan^{-1} \frac{x}{a}$

(16) $\int \frac{x^8}{a^2+x^2} dx = \frac{x^7}{7} - \frac{ax^6}{6} + \frac{a^2x^5}{5} - \frac{a^3x^4}{4} + \frac{a^4x^3}{3} - \frac{a^5x^2}{2} + a^6 \tan^{-1} \frac{x}{a}$

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Forms ...

In mathematics, the definite integral: 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

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Integrals
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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

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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)

$\int \frac{1}{(x+a)^n} dx = \frac{(x+a)^{-n+1}}{-n+1} + c; n \neq 1$ (6)

$\int \frac{x}{(x+a)^n} dx = \frac{(x+a)^{-n+1}}{(n-1)}$

(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)

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Zx a 2...
Integrals

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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

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Gradsteyn-Ryzhik.

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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

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Integrals
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

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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

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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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