

### integral tables or a pdf

Integrals with Trigonometric Functions  $\int \sin ax dx = -\frac{1}{a} \cos ax$  (63)  $\int \sin^2 ax dx = \frac{x}{2} - \frac{\sin 2ax}{4a}$  (64)  $\int \sin^n ax dx = \frac{1}{a} \cos ax \cdot \frac{1}{n-2} \int \sin^{n-2} ax dx - \frac{\sin^{n-1} ax}{n-1}$  (65)  $\int \sin^3 ax dx = -\frac{\cos ax}{a} + \frac{\cos^3 ax}{3a}$  (66)  $\int \cos ax dx = \frac{1}{a} \sin ax$

### Table of Integrals

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### Table of Integrals - UMD Physics

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

### Table of Basic Integrals Basic Forms

Integrals with Trigonometric Functions  $\int \sin ax dx = -\frac{1}{a} \cos ax$  (63)  $\int \sin^2 ax dx = \frac{x}{2} - \frac{\sin 2ax}{4a}$  (64)  $\int \sin^n ax dx = \frac{1}{a} \cos ax \cdot \frac{1}{n-2} \int \sin^{n-2} ax dx - \frac{\sin^{n-1} ax}{n-1}$  (65)  $\int \sin^3 ax dx = -\frac{\cos ax}{a} + \frac{\cos^3 ax}{3a}$  (66)  $\int \cos ax dx = \frac{1}{a} \sin ax$

### Table of Integrals - physics.oregonstate.edu

tables. The primary difference between using a symbolic integration utility and using a table of integrals is that with a symbolic integration utility the computer searches through the database to find a fit. With a table of integrals, you must do the searching.

### CHAPTER 6 Techniques of Integration 6.4 INTEGRATION TABLES

Table of Integrals, Series, and Products Seventh Edition I.S. Gradshteyn and I.M. Ryzhik Alan Jeffrey, Editor University of Newcastle upon Tyne, England

### Table of Integrals, Series, and Products - Elsevier

Integration Tables from Stewart Calculus Textbook 4th Ed. Created Date: 8/22/2011 7:22:05 PM ...

### Integration Tables from Stewart Calculus Textbook 4th Ed.

integration which are essential to be able to use the Tables effectively. These are: substitution, integration by parts and partial fractions. In this chapter we will survey these methods as well as some of the ideas which lead to the tables. After the examination on this material, students will be free to use the Tables to integrate.

### Techniques of Integration - Math

Some Useful Integrals of Exponential Functions Michael Fowler. We've shown that differentiating the exponential function just multiplies it by the constant in the exponent, that is to say,  $\frac{d}{dx} e^{ax} = ae^{ax}$ . Integrating the exponential function, of course, has the opposite effect: it divides by the constant in the exponent:  $\int e^{ax} dx = \frac{1}{a} e^{ax} + C$ , a

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