

# Basic Integration Formulas And The Substitution Rule

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### Basic Integration Formulas And The

#### **Integration Formulas - mathportal.org**

wwwmathportalorg Integration Formulas 1 Common Integrals Indefinite Integral Method of substitution  $\int f(g(x))g'(x)dx = \int f(u)du$  ( ) ( ) ( ) ' = Integration by parts

#### **Basic Integration Formulas - etu.edu.tr**

Basic Integration Formulas 1  $\int [f(x) \pm g(x)] dx = \int f(x)dx \pm \int g(x)dx$  2  $\int x^n dx = \frac{x^{n+1}}{n+1} + C, n \neq -1$  3  $\int \frac{dx}{x} = \ln|x| + C$  4  $\int e^x dx = e^x + C$  5  $\int \sin x dx = -\cos x + C$  6

#### **G.1 Differentiation and Integration Formulas - cengage.com**

Appendix G1 Differentiation and Integration Formulas G1 Use differentiation and integration tables to supplement differentiation and integration techniques

#### **Table of Basic Integrals1 - integral-table.com**

Table of Basic Integrals1 (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)  $\int e^{ax} dx = \frac{1}{a} e^{ax}$  (5)  $\int a^x dx = \frac{1}{\ln a} a^x$  (6)  $\int \ln x dx = x \ln x - x$  (7)  $\int \sin x dx = -\cos x$

#### **Integration by parts - Mathematics resources**

Integration by parts mc-TY-parts-2009-1 A special rule, integration by parts, is available for integrating products of two functions This unit derives and illustrates this rule with a number of examples

