

# Integralrechnung pdf

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If the derivative of  $f(x)$  is  $v(x)$ , then the integral of  $v(x)$  is  $f(x)$ . Integrals with Trigonometric Functions  $\int \sin ax dx = -\frac{1}{a} \cos ax + C$  (63)  $\int \sin^2 ax dx = \frac{x}{2} - \frac{\sin 2ax}{4a}$  (64)  $\int \sin^n ax dx = -\frac{\cos ax}{n} - \frac{\cos ax \sin ax}{(n-2)}$  (65)  $\int \sin^3 ax dx = -\frac{\cos ax}{3} + \frac{\cos^3 ax}{9}$  This chapter is about the idea of integration, and also about the technique of integration. Doing The algebra is well within the capability of a good computer algebra system like Sage, so we will present the result without all of the algebra; you can see how to do it in this Sage notebook  $\int (ax + b) dx = \frac{a}{2}x^2 + bx + C$ . Integrals begin with sums.  $\int_0^1 x^n dx = \frac{1}{n+1}$  for  $n \neq -1$ . We explain how it is done in principle, and then how it is done in practice. Integration is a problem of adding up infinitely many things, each of which is infinitesimally small. This chapter is about the idea of integration, and also about the technique of integration.  $\int x^n dx = \frac{x^{n+1}}{n+1}$  for  $n \neq -1$ . For functions, finding the integral is the reverse of differentiation. We explain how it is done in principle, and then how it is done in practice. Integration is a problem of adding up infinitely many things, each of which is infinitesimally small. Doing the addition is not recommended Properties of the Integral: (1)  $\int_a^b f(x) dx = \int_a^b f(x) dx$  (2)  $\int_a^b k f(x) dx = k \int_a^b f(x) dx$  (3)  $\int_a^b [f(x) + g(x)] dx = \int_a^b f(x) dx + \int_a^b g(x) dx$  The triangle under  $v = lox$  out to  $x = has$  area  $I$ . It is approximated by four rectangles Guidelines for Integration by Substitution Let  $u$  be a function of  $x$  (usually part of the integrand) Solve for  $x$  and  $dx$  in terms of  $u$  and  $du$  Convert the entire integral to  $u$ -variable form and try to fit it to one or more of the basic integration formulas. If  $V(X) = lox$  then  $f(x) = i$ .

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Étape 1 -

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