

# **Read free Table of integrals integral table (2023)**

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table of integrals basic forms 1  $x^n dx$  1  $n \neq -1$   $x^n dx = \frac{x^{n+1}}{n+1} + C$   
 2  $\int \ln x dx = x \ln x - x + C$   
 3  $\int u dv = uv - \int v du$   
 4  $\int u^n x^m dx = \frac{u^{n+1} x^m}{m(n+1)} + C$   
 rational functions  
 5  $\int \frac{1}{ax+b} dx = \frac{1}{a} \ln|ax+b| + C$   
 6  $\int \frac{1}{x^2+a^2} dx = \frac{1}{a} \arctan\left(\frac{x}{a}\right) + C$   
 7  $\int \frac{1}{x^2-a^2} dx = \frac{1}{2a} \ln\left|\frac{x-a}{x+a}\right| + C$   
 8  $\int \frac{1}{x^2+a^2} dx = \frac{1}{a} \arctan\left(\frac{x}{a}\right) + C$   
 9  $\int \frac{1}{x^2-a^2} dx = \frac{1}{2a} \ln\left|\frac{x-a}{x+a}\right| + C$   
 10  $\int \frac{1}{x^2+a^2} dx = \frac{1}{a} \arctan\left(\frac{x}{a}\right) + C$   
 11  $\int \frac{1}{x^2-a^2} dx = \frac{1}{2a} \ln\left|\frac{x-a}{x+a}\right| + C$

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basic integrals 1 quad displaystyle u n du frac u n 1 n 1 c quad n 1 2 quad displaystyle frac du u ln u c 3 quad displaystyle e u du e u c 4 quad displaystyle a u du frac a u ln a c 5 quad displaystyle sin u du cos u c 6 quad displaystyle cos u du sin u c

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table of integrals page id for this course all work must be shown to obtain most of these integral forms of the integration formulas listed below the only ones that can be applied without further work are 1 10 15 17 and 49 and 50 and even these will require work to be shown if a substitution is involved

appendix a table of integrals calculus i lumen learning Oct 22 2023

appendix a table of integrals calculus i basic integrals 1  $\int u du$   $\int n \ln n dn$   $\int c \ln c dc$  2  $\int u^n du$   $\int \ln u du$   $\int u^c du$   $\int \ln c du$  3  $\int e^u du$   $\int u^c du$   $\int e^c du$  4  $\int a^u du$   $\int u^a du$   $\int \ln a du$  5  $\int \sin u du$   $\int \cos u du$   $\int \sin c du$  6  $\int \cos u du$   $\int \sin u du$   $\int \cos c du$

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find the following integral using table of integrals  $\int e^{2x} \sin 3x \, dx$  there are some more examples of using the table of integrals in the section integration by reduction formulae

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below is a table of indefinite integrals with this table and integration techniques you will be able to find majority of integrals it is also worth noting that unlike derivative we can find derivative of any function we can't find integral of any function this means that we can't find integral in terms of functions we know

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we will discuss the definition and properties of each type of integral as well as how to compute them including the substitution rule we will give the fundamental theorem of calculus showing the relationship between derivatives and integrals we will also discuss the area problem an important interpretation of the definite integral

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1 integrals of elementary functions 1 1 dx x c d x x c 1 2 k dx kx c k d x k x c where k k is a constant 1 3 xn dx xn 1 n 1 c x n d x x n 1 n 1 c 1 4 1 x dx ln x c 1 x d x ln x c

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