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add a constant to the solution $\int f(x) dx = F(x) + C$ power rule $\int x^a dx = \frac{x^{a+1}}{a+1} + C$ (for $a \neq -1$) integral substitution $\int f(g(x)) \cdot g'(x) dx = \int f(u) du$ definite integrals rules

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the examples in this section can all be done with a basic knowledge of indefinite integrals and will not require the use of the substitution rule included in the examples in this section are computing definite integrals of piecewise and absolute value functions

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an equation involving a function $f(x)$ and integrals of that function to solved for $f(x)$ if the limits of the integral are fixed an integral equation is called a fredholm integral equation if one limit is variable it is called a volterra integral equation

integral calculus formulas methods examples integrals

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integral calculus is used for solving the problems of the following types a the problem of finding a function if its derivative is given b the problem of finding the area bounded by the graph of a function under given conditions thus the integral calculus is divided into two types

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