



FORMULE INTEGRALE NEDEFINITE

$\int dx =$	$\ln(x + \sqrt{x^2 + a^2}) + C$
$\int x dx =$	$\arcsin x + C$
$\int x^n dx =$	$-\cos x + C$
$\int \sqrt{x} dx =$	$\arcsin \frac{x}{a} + C$
$\int e^x dx =$	$\frac{x^{n+1}}{n+1} + C$
$\int a^x dx =$	$\sqrt{x^2 + a^2} + C$
$\int \frac{1}{x} dx =$	$\frac{x^2}{2} + C$
$\int \frac{1}{x^2 - a^2} dx =$	$e^x + C$
$\int \frac{1}{x^2 + 1} dx =$	$\frac{a^x}{\ln a} + C$
$\int \frac{1}{x^2 + a^2} dx =$	$\sin x + C$
$\int \frac{1}{\sqrt{1-x^2}} dx =$	$\frac{2}{3} x\sqrt{x} + C$
$\int \frac{1}{\sqrt{a^2 - x^2}} dx =$	$-\sqrt{a^2 - x^2} + C$
$\int \sin x dx =$	$x + C$
$\int \cos x dx =$	$-\ln \cos x + C$
$\int \operatorname{tg} x dx =$	$\ln \sin x + C$
$\int \operatorname{ctg} x dx =$	$\operatorname{tg} x + C$
$\int \frac{1}{\cos^2 x} dx =$	$\ln x + C$
$\int \frac{1}{\sin^2 x} dx =$	$\operatorname{arctg} x + C$
$\int \frac{x}{\sqrt{x^2 - a^2}} dx =$	$\ln x + \sqrt{x^2 - a^2} + C$
$\int \frac{x}{\sqrt{x^2 + a^2}} dx =$	$\frac{1}{a} \operatorname{arctg} \frac{x}{a} + C$
$\int \frac{x}{\sqrt{a^2 - x^2}} dx =$	$\frac{1}{2a} \ln \left \frac{x-a}{x+a} \right + C$
$\int \frac{1}{\sqrt{x^2 - a^2}} dx =$	$-\operatorname{ctg} x + C$
$\int \frac{1}{\sqrt{x^2 + a^2}} dx =$	$\sqrt{x^2 - a^2} + C$