Základné vzorce

$\sqrt[n]{x} = x^{\frac{1}{n}}$ $\quad \ln x = \log_e x$ $\quad \log_b x = \frac{\log_a x}{\log_a b}$ $\quad \log_b x = \frac{\log_a x}{\log_a b}$

$\sin^2 x + \cos^2 x = 1$ $\quad \operatorname{tg} x = \frac{\sin x}{\cos x}$ $\quad \operatorname{cotg} x = \frac{\cos x}{\sin x}$ $\quad \sinh x = \frac{e^x - e^{-x}}{2}$

$\cosh x = \frac{e^x + e^{-x}}{2}$ $\quad \operatorname{tgh} x = \frac{\sinh x}{\cosh x}$ $\quad \operatorname{cotgh} x = \frac{\cosh x}{\sinh x}$ $\quad \cosh^2 x - \sinh^2 x = 1$

$x^n - a^n = (x-a)(x^{n-1} + x^{n-2}a + \ldots + xa^{n-2} + a^{n-1})$

$x^n + a^n = (x+a)(x^{n-1} - x^{n-2}a + x^{n-3}a^2 - \ldots - xa^{n-2} + a^{n-1})$, n nepárne

$\sin(x \pm y) = \sin x \cos y \pm \cos x \sin y$ $\quad \cos(x \pm y) = \cos x \cos y \mp \sin x \sin y$

$\sinh(x \pm y) = \sinh x \cosh y \pm \cosh x \sinh y$ $\quad \cosh(x \pm y) = \cosh x \cosh y \pm \sinh x \sinh y$

integrovanie:	*derivovanie:*
$\int x^a \, \mathrm{d}x = \frac{x^{a+1}}{a+1} + C$, $a \neq -1$	$(x^a)' = ax^{a-1}$
$\int \frac{1}{x} \, \mathrm{d}x = \ln\lvert x\rvert + C$	$(\ln(x))' = \frac{1}{x}$
$\int e^x \, \mathrm{d}x = e^x + C$	$(e^x)' = e^x$
$\int a^x \, \mathrm{d}x = \frac{a^x}{\ln a} + C$, $a > 0$, $a \neq 1$	$(a^x)' = a^x \ln a$
$\int \sin x \, \mathrm{d}x = -\cos x + C$	$(\cos x)' = -\sin x$
$\int \cos x \, \mathrm{d}x = \sin x + C$	$(\sin x)' = \cos x$
$\int \operatorname{tg} x \, \mathrm{d}x = -\ln\lvert\cos x\rvert + C$	$(\operatorname{tg} x)' = \frac{1}{\cos^2 x}$
$\int \operatorname{cotg} x \, \mathrm{d}x = \ln\lvert\sin x\rvert + C$	$(\operatorname{cotg} x)' = -\frac{1}{\sin^2 x}$
$\int \frac{1}{1+x^2} \, \mathrm{d}x = \operatorname{arctg} x + C = -\operatorname{arccotg} x + C$	$(\operatorname{arctg} x)' = \frac{1}{1+x^2}$
	$(\operatorname{arccotg} x)' = -\frac{1}{1+x^2}$
$\int \frac{1}{\sqrt{1-x^2}} = \arcsin x + C = -\arccos x + C$	$(\arcsin x)' = \frac{1}{\sqrt{1-x^2}}$
	$(\arccos x)' = -\frac{1}{\sqrt{1-x^2}}$
$\int \frac{1}{\sqrt{x^2+a}} = \ln\lvert x + \sqrt{x^2+a}\rvert + C$	
$\int \frac{f'(x)}{f(x)} \, \mathrm{d}x = \ln\lvert f(x)\rvert + C$	
$\int \sinh x = \cosh x + C$	$(\cosh x)' = \sinh x$
$\int \cosh x = \sinh x + C$	$(\sinh x)' = \cosh x$
$\int \operatorname{tgh} x = \ln \cosh x + C$	$(\operatorname{tgh} x)' = \frac{1}{\cosh^2 x}$
$\int \operatorname{cotgh} x = \ln \sinh x + C$	$(\operatorname{cotgh} x)' = \frac{1}{\sinh^2 x}$
Linearita	
$\int (f_1(x) + f_2(x)) \, \mathrm{d}x = \int f_1(x) \, \mathrm{d}x + \int f_2(x) \, \mathrm{d}x$	$(f_1(x) + f_2(x))' = f_1'(x) + f_2'(x)$
$\int cf(x) \, \mathrm{d}x = c \int f(x) \, \mathrm{d}x$	$(cf(x))' = cf'(x)$
Substitučná metóda	
$\int f(\varphi(x))\varphi'(x) \, \mathrm{d}x = F(\varphi(x))$, $F(x) = \int f(x) \, \mathrm{d}x$	$(f(g(x)))' = f'(g(x))g'(x)$
Metóda per partes	
$\int f(x)g'(x) \, \mathrm{d}x = fg - \int f'(x)g(x) \, \mathrm{d}x$	$(f(x)g(x))' = f'(x)g(x) + f(x)g'(x)$
	$\left(\frac{f(x)}{g(x)}\right)' = \frac{f'(x)g(x) - f(x)g'(x)}{g^2(x)}$

Ďalšie vzorce:

Predpoklad: $a \neq 0$

$\int \sqrt{x^2 - a^2} \, \mathrm{d}x = \frac{1}{2}x\sqrt{x^2 - a^2} - \frac{a^2}{2} \ln(x \pm \sqrt{x^2 - a^2}) + C$

$\int \sqrt{x^2 + a^2} \, \mathrm{d}x = \frac{1}{2}x\sqrt{x^2 + a^2} \pm \frac{a^2}{2} \ln(\sqrt{x^2 + a^2} \pm x) + C$

$\int \sqrt{a^2 - x^2} \, \mathrm{d}x = \frac{a^2}{2} \arcsin \frac{x}{a} - \frac{1}{2}x\sqrt{a^2 - x^2} + C = -\frac{a^2}{2} \arccos \frac{x}{a} - \frac{1}{2}x\sqrt{a^2 - x^2} + C$

$\int \frac{\mathrm{d}x}{x^2 - a^2} = \frac{1}{2a} \ln\left\lvert\frac{x-a}{x+a}\right\rvert + C$

$\int \frac{1}{x^2 + a^2} = \frac{1}{a}\operatorname{arctg} \frac{x}{a} + C = -\frac{1}{a}\operatorname{arccotg} \frac{x}{a} + C$