

Tabelle der Grundintegrale

$f(x)$	$F(x)$
$x^\alpha, \alpha \neq -1$	$\frac{1}{\alpha+1} x^{\alpha+1} + c$
$\frac{1}{x}$	$\ln x + c$
$\frac{1}{x-\alpha}$	$\ln x-\alpha + c$
e^{ax}	$\frac{1}{a} e^{ax} + c$
$\sum_{k=0}^{\infty} a_k x^k$	$\sum_{k=0}^{\infty} \frac{a_k}{k+1} x^{k+1} + c$
$\cos x$	$\sin x + c$
$\sin x$	$-\cos x + c$
$\cosh x = \frac{e^x + e^{-x}}{2}$	$\sinh x + c = \frac{e^x - e^{-x}}{2} + c$
$\frac{1}{\sqrt{x^2+1}}$	$\operatorname{arcsin hyp} x + c$
$\frac{1}{\sqrt{x^2-1}}$	$\operatorname{arccos hyp} x + c$
$\frac{1}{\sqrt{1-x^2}}$	$\operatorname{arcsin} x + c$
$\frac{1}{x^2+1}$	$\operatorname{arctan} x + c$
$\frac{g'}{g}$	$\ln g(x) + c$
$\frac{1}{\sin^2 x}$	$-\cot x + c$
$\frac{1}{\cos^2 x}$	$\tan x + c$
$\frac{1}{1-x^2}$	$\frac{1}{2} \ln \left \frac{1+x}{1-x} \right + c$