$f(x)$	$\int f(x)dx$
x^n con $(n \neq -1)$	$\frac{x^{n+1}}{n+1}+c$
$\frac{1}{x}$	$log_e\|x\|+c$
$\frac{1}{a^2+x^2}$	$\frac{1}{a}\cdot arctg\frac{x}{a}+c$
$\frac{1}{x^2-a^2}$	$\frac{1}{2a}\cdot log_e\left\|\frac{x-a}{x+a}\right\|+c$
$\frac{1}{a^2-x^2}$	$\frac{1}{2a}\cdot log_e\left\|\frac{a+x}{a-x}\right\|+c$
$\frac{1}{\sqrt{x^2+a}}$	$log_e\left\|x+\sqrt{x^2+a}\right\|+c$
$\frac{1}{\sqrt{a^2-x^2}}$	$arcsen\frac{x}{a}+c=-arccos\frac{x}{a}+c$
e^x	e^x+c
a^x	$\frac{a^x}{log_e(a)}+c$
$log_e(x)$	$x\cdot log_e(x)-x+c$
$log_a(x)$	$\frac{1}{log_e(a)}\cdot(x\cdot log_e(x)-x)+c$
$sen(x)$	$-cos(x)+c$
$cos(x)$	$sen(x)+c$
$tg(x)$	$log_e\left(1+tg^2\left(\frac{x}{2}\right)\right)-log_e\left\|1-tg^2\left(\frac{x}{2}\right)\right\|+c$
$ctg(x)$	$log_e\left\|tg\left(\frac{x}{2}\right)\right\|-log_e\left(1+tg^2\left(\frac{x}{2}\right)\right)+c$
$\frac{1}{sen^2(x)}$	$-ctg(x)+c$
$\frac{1}{cos^2(x)}$	$tg(x)+c$

$f(x)$	$\int f(x)dx$
$\frac{1}{sen(x)}$	$log_e\left\|tg\left(\frac{x}{2}\right)\right\|+c$
$\frac{1}{cos(x)}$	$log_e\left\|tg\left(\frac{x}{2}+\frac{\pi}{4}\right)\right\|+c$
$arcsen(x)$	$x\cdot arcsen(x)+\sqrt{1-x^2}+c$
$arcos(x)$	$x\cdot arcos(x)-\sqrt{1-x^2}+c$
$arctg(x)$	$x\cdot arctg(x)-\frac{1}{2}log_e\left(1+x^2\right)+c$
$senh(x)$	$cosh(x)+c$
$cosh(x)$	$senh(x)+c$
$\frac{1}{senh^2(x)}$	$-ctgh(x)+c$
$\frac{1}{cosh^2(x)}$	$tgh(x)+c$

Regole di integrazione

$$\int k\cdot f(x)dx=k\cdot\int f(x)dx$$

$$\int[f(x)\pm g(x)]dx=\int f(x)dx\pm\int g(x)dx$$

$$\int\left[f(x)\cdot g'(x)\right]dx=f(x)\cdot g(x)-\int\left[f'(x)\cdot g(x)\right]dx$$

$$\int\frac{f'(x)}{f(x)}dx=log_e[f(x)]+c$$

$$\int\left[f^n(x)\cdot f'(x)\right]dx=\frac{f^{n+1}(x)}{n+1}+c$$

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