Tabella delle derivate e delle primitive fondamentali

$F(x) = \int f(x)\,\mathrm{d}x$	$f(x) = F'(x)$	
x^n	nx^{n-1}	$n \in \mathbf{N}$
$\log_e \lvert x\rvert$	$\frac{1}{x}$	$x \in (-\infty, 0)$ oppure $x \in (0, +\infty)$
$\sqrt[m]{x^n}$	$\frac{n}{m\sqrt[m]{x^{m-n}}}$	$n, m \in \mathbf{N}_+$ e $m \geq 2$, $x < 0$ *o* $x > 0$
$\frac{1}{\sqrt[m]{x^n}}$	$\frac{-n}{m\sqrt[m]{x^{m+n}}}$	$n, m \in \mathbf{N}_+$ e $m \geq 2$, $x < 0$ *o* $x > 0$
x^α	$\alpha x^{\alpha-1}$	$\alpha \in \mathrm{R}$, $x > 0$
$\mathrm{e}^{\,x}$	$\mathrm{e}^{\,x}$	
a^x	$a^x \log_e a$	$a > 0$
$\log_a \lvert x\rvert$	$\frac{1}{x \log_e a} = \frac{1}{x} \log_a e$	$a > 0$, $a \neq 1$, $x > 0$ oppure $x < 0$
$\sin x$	$\cos x$	
$\cos x$	$-\sin x$	
$\mathrm{tang}\, x$	$1 + \mathrm{tang}^2 x = \frac{1}{\cos^2 x}$	
$\mathrm{cotang}\, x$	$-1 - \mathrm{cotang}^2 x = \frac{-1}{\sin^2 x}$	
$\arcsin x$	$\frac{1}{\sqrt{1-x^2}}$	
$\arccos x$	$\frac{-1}{\sqrt{1-x^2}}$	
$\arctan x$	$\frac{1}{1+x^2}$	
$\mathrm{arccotan}\, x$	$\frac{-1}{1+x^2}$	
$\sinh x$	$\cosh x$	
$\cosh x$	$\sinh x$	
$\tanh x$	$1 - \tanh^2 x = \frac{1}{\cosh^2 x}$	
$\mathrm{cotanh}\, x$	$1 - \mathrm{cotanh}^2 x = \frac{-1}{\sinh^2 x}$	
$\mathrm{settsinh}\, x$	$\frac{1}{\sqrt{1+x^2}}$	
$\mathrm{settcosh}\, x$	$\frac{1}{\sqrt{x^2-1}}$	$x > 1$
$\mathrm{setttanh}\, x$	$\frac{1}{1-x^2}$	$-1 < x < 1$
$\mathrm{settcotanh}\, x$	$\frac{1}{1-x^2}$	$(x < -1)$ oppure $(x > 1)$
$\frac{1}{2} \log \left\lvert \frac{1+x}{1-x} \right\rvert$	$\frac{1}{1-x^2}$	$(x < -1)$ *o* $(-1 < x < 1)$ *o* $(x > 1)$