

$f(x)$	$f'(x)$
k	0
x^n	$n \cdot x^{n-1}$
$x^{\frac{1}{n}} = \sqrt[n]{x}$	$\frac{1}{n} \cdot x^{\frac{1}{n}-1} = \frac{1}{n\sqrt[n]{x^{n-1}}}$
$x^{\frac{m}{n}} = \sqrt[n]{x^m}$	$\frac{m}{n} \cdot x^{\frac{m}{n}-1} = \frac{m}{n\sqrt[n]{x^{n-m}}}$
e^x	e^x
a^x	$a^x \cdot \log_e(a)$
$\log_e(x)$	$\frac{1}{x}$
$\log_a(x)$	$\frac{1}{x \cdot \log_e(a)}$
$\text{sen}(x)$	$\text{cos}(x)$
$\text{cos}(x)$	$-\text{sen}(x)$
$\text{tg}(x)$	$\frac{1}{\text{cos}^2(x)}$
$\text{ctg}(x)$	$-\frac{1}{\text{sen}^2(x)}$
$\text{arcsen}(x)$	$\frac{1}{\sqrt{1-x^2}}$
$\text{arccos}(x)$	$-\frac{1}{\sqrt{1-x^2}}$
$\text{arctg}(x)$	$\frac{1}{1+x^2}$
$\text{arcctg}(x)$	$-\frac{1}{1+x^2}$
$\text{senh}(x)$	$\text{cosh}(x)$

$f(x)$	$f'(x)$
$\cosh(x)$	$\sinh(x)$
$\operatorname{tgh}(x)$	$\frac{1}{\cosh^2(x)}$
$\operatorname{ctgh}(x)$	$-\frac{1}{\sinh^2(x)}$
$\operatorname{arcsenh}(x)$	$\frac{1}{\sqrt{x^2+1}}$
$\operatorname{arccosh}(x)$	$\frac{1}{\sqrt{x^2-1}}$
$\operatorname{arctgh}(x)$	$\frac{1}{1-x^2}$
$\operatorname{arcctgh}(x)$	$-\frac{1}{1-x^2}$

Regole di derivazione:

$$\frac{d}{dx}(f(x) \pm g(x)) = f'(x) \pm g'(x)$$

$$\frac{d}{dx}(f(x) \cdot g(x)) = f'(x) \cdot g(x) + f(x) \cdot g'(x)$$

$$\frac{d}{dx} \left(\frac{f(x)}{g(x)} \right) = \frac{f'(x) \cdot g(x) - f(x) \cdot g'(x)}{[g(x)]^2}$$

$$\frac{d}{dx}(f(g(x))) = f'(g(x)) \cdot g'(x)$$

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