

TABELLA DERIVATE

$y = k$	$y' = 0$	$y = x$	$y' = 1$
$y = x^n$	$y' = nx^{n-1}$	$y = \{f(x)\}^n$	$y' = n\{f(x)\}^{n-1} f'(x)$
$y = \sqrt{x}$	$y' = \frac{1}{2\sqrt{x}}$	$y = \sqrt{f(x)}$	$y' = \frac{1}{2\sqrt{f(x)}} f'(x)$
$y = \sqrt[n]{x}$	$y' = \frac{1}{n\sqrt[n]{x^{n-1}}}$	$y = \sqrt[n]{f(x)}$	$y' = \frac{1}{n\sqrt[n]{f(x)^{n-1}}} f'(x)$
$y = \sqrt[n]{x^m}$	$y' = \frac{m}{n\sqrt[n]{x^{n-m}}}$	$y = \sqrt[n]{\{f(x)\}^m}$	$y' = \frac{m}{n\sqrt[n]{\{f(x)\}^{n-m}}} f'(x)$
$y = \sin x$	$y' = \cos x$	$y = \sin f(x)$	$y' = \cos f(x) f'(x)$
$y = \cos x$	$y' = -\sin x$	$y = \cos f(x)$	$y' = -\sin f(x) f'(x)$
$y = \operatorname{tg} x$	$y' = \frac{1}{\cos^2 x}$	$y = \operatorname{tg} f(x)$	$y' = \frac{1}{\cos^2 f(x)} f'(x)$
$y = \operatorname{ctg} x$	$y' = -\frac{1}{\sin^2 x}$	$y = \operatorname{ctg} f(x)$	$y' = -\frac{1}{\sin^2 f(x)} f'(x)$
$y = \arcsin x$	$y' = \frac{1}{\sqrt{1-x^2}}$	$y = \arcsin f(x)$	$y' = \frac{1}{\sqrt{1-\{f(x)\}^2}} f'(x)$
$y = \arccos x$	$y' = -\frac{1}{\sqrt{1-x^2}}$	$y = \arccos f(x)$	$y' = -\frac{1}{\sqrt{1-\{f(x)\}^2}} f'(x)$
$y = \operatorname{arctg} x$	$y' = \frac{1}{1+x^2}$	$y = \operatorname{arctg} f(x)$	$y' = \frac{1}{1+\{f(x)\}^2} f'(x)$
$y = \operatorname{arcctg} x$	$y' = -\frac{1}{1+x^2}$	$y = \operatorname{arcctg} f(x)$	$y' = -\frac{1}{1+\{f(x)\}^2} f'(x)$
$y = \log_a x$	$y' = \frac{1}{x} \log_a e$	$y = \log_a f(x)$	$y' = \frac{1}{f(x)} \cdot \log_a e \cdot f'(x)$
$y = \log_a f(x)$	$y' = \frac{1}{f(x)} \cdot f'(x) \cdot \frac{1}{\ln a}$		
$y = \ln x$	$y' = \frac{1}{x}$	$y = \ln f(x)$	$y' = \frac{1}{f(x)} f'(x)$
$y = a^x$	$y' = a^x \cdot \ln a$	$y = a^{f(x)}$	$y' = a^{f(x)} \ln a \cdot f'(x)$
$y = e^x$	$y' = e^x$	$y = e^{f(x)}$	$y' = e^{f(x)} \cdot f'(x)$
$y = x^x$	$y' = x^x (1 + \ln x)$	$y = \{f(x)\}^{\varphi(x)}$	$y' = \{f(x)\}^{\varphi(x)} \cdot \left\{ \varphi'(x) \ln f(x) + \frac{\varphi(x)}{f(x)} f'(x) \right\}$