Funzione	Derivata
$y = f(x)^n$	$y' = nf(x)^{n-1} \cdot f'(x)$
$y = \frac{1}{f(x)}$	$y' = -\frac{1}{f(x)^2}$
$y = \sqrt{f(x)}$	$y' = \frac{1}{2\sqrt{f(x)}} \cdot f'(x)$
$y = senf(x)$	$y' = cosf(x) \cdot f'(x)$
$y = cosf(x)$	$y' = -senf(x) \cdot f'(x)$
$y = tanf(x)$	$y' = \frac{1}{cos^2 f(x)} \cdot f'(x) = 1 + tan^2 f(x) \cdot f'(x)$
$y = ctg\, f(x)$	$y' = -\frac{1}{sen^2 f(x)} \cdot f'(x)$
$y = e^{f(x)}$	$y' = e^{f(x)} \cdot f'(x)$
$y = a^{f(x)}$	$y' = a^{f(x)} \ln a \cdot f'(x)$
$y = \ln f(x)$	$y' = \frac{1}{f(x)} \cdot f'(x)$
$y = \log_a f(x)$	$y' = \frac{1}{f(x) \cdot \ln a} \cdot f'(x) = \frac{\log_a e}{f(x)} \cdot f'(x)$
$y = arcsinf(x)$	$y' = \frac{1}{\sqrt{1 - f(x)^2}} \cdot f'(x)$
$y = arccosf(x)$	$y' = -\frac{1}{\sqrt{1 - f(x)^2}} \cdot f'(x)$
$y = arctgf(x)$	$y' = \frac{1}{1 + f(x)^2} \cdot f'(x)$
$y = arcctg\, f(x)$	$y' = -\frac{1}{1 + f(x)^2} \cdot f'(x)$

Funzione	Derivata
$y = costante$	$y' = 0$
$y = x$	$y' = 1$
$y = x^n$	$y' = n\, x^{n-1}$
$y = \frac{1}{x}$	$y' = -\frac{1}{x^2}$
$y = \sqrt{x}$	$y' = \frac{1}{2\sqrt{x}}$
$y = \sqrt[n]{x^m}$	$y' = \frac{m}{n\sqrt[n]{x^{n-m}}}$
$y = senx$	$y' = cosx$
$y = cosx$	$y' = -senx$
$y = tanx$	$y' = \frac{1}{cos^2 x} = 1 + tan^2 x$
$y = ctg\, x$	$y' = -\frac{1}{sen^2 x}$
$y = e^x$	$y' = e^x$
$y = a^x$	$y' = a^x \ln a$
$y = \ln x$	$y' = \frac{1}{x}$
$y = \log_a x$	$y' = \frac{1}{x \cdot \ln a} = \frac{\log_a e}{x}$
$y = x^x$	$y' = x^x (1 + \ln x)$
$y = arcsin\, x$	$y' = \frac{1}{\sqrt{1 - x^2}}$
$y = arccos\, x$	$y' = -\frac{1}{\sqrt{1 - x^2}}$
$y = arctg\, x$	$y' = \frac{1}{1 + x^2}$
$y = arcctg\, x$	$y' = -\frac{1}{1 + x^2}$

REGOLE DI DERIVAZIONE

Regola della somma (linearità) $D[\alpha f(x) + \beta g(x)] = \alpha f'(x) + \beta g'(x)$

Regola del prodotto (o di Leibniz) $D[f(x) \cdot g(x)] = f'(x) \cdot g(x) + f(x) \cdot g'(x)$

Regola del quoziente $D\left[\frac{f(x)}{g(x)}\right] = \frac{f'(x) \cdot g(x) - f(x) \cdot g'(x)}{(g(x))^2}$

Regola della funzione reciproca $D\left[\frac{1}{f(x)}\right] = -\frac{f'(x)}{f(x)^2}$

Regola della catena o delle funzioni composte $D[f(g(x))] = f^1(g(x)) \cdot g'(x)$