

Derivate principali

Funzioni varie

Primitiva	Derivata
$y = k$	$y' = 0$
$y = k \cdot x$	$y' = k$
$y = x^k$	$y' = k \cdot y^{k-1}$
$y = x $	$y' = \frac{x}{ x }$ e $y' = \text{signum}(x)$

Funzioni esponenziali

Primitiva	Derivata
$y = a^{k \cdot x + z}$	$y' = k \cdot a^{k \cdot x + z} \cdot \ln(a)$
$y = \ln(x)$	$y' = \frac{1}{x}$
$y = \log_a(x)$	$y' = \frac{1}{x} \cdot \frac{1}{\ln(a)}$
$y = e^x$	$y' = e^x$

Funzioni trigonometriche

Primitiva	Derivata
$y = \text{sen}(x)$	$y' = \text{cos}(x)$
$y = \text{cos}(x)$	$y' = -\text{sen}(x)$
$y = \text{tg}(x)$	$y' = \frac{1}{\text{cos}^2(x)}$ e $y' = 1 + \text{tg}^2(x)$
$y = \text{arcsin}(x)$	$y' = -\frac{1}{\sqrt{1-x^2}}$
$y = \text{arcos}(x)$	$y' = -\frac{1}{\sqrt{1-x^2}}$
$y = \text{arctg}(x)$	$y' = \frac{1}{x^2+1}$
$y = \text{cosec}(x)$	$y' = -\frac{\text{cos}(x)}{\text{sen}^2(x)}$
$y = \text{sec}(x)$	$y' = -\frac{\text{sen}(x)}{\text{cos}^2(x)}$
$y = \text{cotg}(x)$	$y' = -\text{cot}^2(x) - 1$
$y = \text{arccosec}(x)$	$y' = -\frac{1}{\sqrt{(x^2-1)} \cdot x }$
$y = \text{arcsec}(x)$	$y' = \frac{1}{\sqrt{(x^2-1)} \cdot x }$
$y = \text{arccotg}(x)$	$y' = -\frac{1}{x^2+1}$