

Tabla de derivadas

Derivadas básicas

$[k]' = 0, k \in R$	$[\ln x]' = \frac{1}{x}$	$[\csc(x)]' = -\csc(x)\cot(x)$
$[x]' = 1$	$[a^x]' = a^x \ln a$	$[\cot(x)]' = -\csc^2(x)$
$[x^n]' = nx^{n-1}$	$[e^x]' = e^x$	$[\arcsen(x)]' = \frac{1}{\sqrt{1-x^2}}$
$[\sqrt{x}]' = \frac{1}{2\sqrt{x}}$	$\left[\frac{f(x)}{g(x)}\right]' = \frac{f'(x)g(x) - f(x)g'(x)}{[g(x)]^2}$	$[\arccos(x)]' = \frac{-1}{\sqrt{1-x^2}}$
$[\sqrt[3]{x}]' = \frac{1}{3\sqrt[3]{x^2}}$	$[f(x)g(x)]' = f'(x)g(x) + f(x)g'(x)$	$[\arctan(x)]' = \frac{1}{1+x^2}$
$[kf(x)]' = kf'(x)$	$[f(x) \pm g(x)]' = f'(x) \pm g'(x)$	$[\arcsec(x)]' = \frac{1}{ x \sqrt{x^2-1}}$
$\left[\frac{1}{x}\right]' = -\frac{1}{x^2}$	$[\sen(x)]' = \cos(x)$	$[\arccsc(x)]' = \frac{-1}{ x \sqrt{x^2-1}}$
$[\log_a x]' = \frac{1}{x} \log_a e$	$[\cos(x)]' = -\sen(x)$	$[\arccot(x)]' = \frac{-1}{1+x^2}$
	$[\tan(x)]' = \sec^2(x)$	
	$[\sec(x)]' = \sec(x)\tan(x)$	

Derivadas básicas con regla de la cadena

$[(f(x))^n]' = n[f(x)]^{n-1} f'(x)$	$[\log_a f(x)]' = \frac{1}{f(x)} \cdot f'(x) \log_a e$	$[\arccos[f(x)]]' = \frac{-f'(x)}{\sqrt{1-f(x)^2}}$
$[\sqrt{f(x)}]' = \frac{1}{2\sqrt{f(x)}} f'(x)$	$[\sen[f(x)]]' = \cos[f(x)] f'(x)$	$[\arctan[f(x)]]' = \frac{f'(x)}{1+f(x)^2}$
$[\sqrt[3]{f(x)}]' = \frac{1}{3\sqrt[3]{(f(x))^2}} f'(x)$	$[\cos[f(x)]]' = -\sen[f(x)] f'(x)$	$[\arcsec[f(x)]]' = \frac{f'(x)}{ f(x) \sqrt{f(x)^2-1}}$
$\left[\frac{1}{f(x)}\right]' = \frac{-1}{f^2(x)} f'(x)$	$[\tan[f(x)]]' = \sec^2[f(x)] f'(x)$	$[\arccsc[f(x)]]' = \frac{-f'(x)}{ f(x) \sqrt{f(x)^2-1}}$
$[e^{f(x)}]' = e^{f(x)} f'(x)$	$[\sec[f(x)]]' = \sec[f(x)] \tan(f(x)) f'(x)$	$[\arccot[f(x)]]' = \frac{-f'(x)}{1+f(x)^2}$
$[\ln f(x)]' = \frac{1}{f(x)} f'(x)$	$[\csc[f(x)]]' = -\csc[f(x)] \cot[f(x)] f'(x)$	
$[a^{f(x)}]' = a^{f(x)} f'(x) \ln a$	$[\cot(f(x))] = -\csc^2[f(x)] f'(x)$	
	$[\arcsen[f(x)]]' = \frac{f'(x)}{\sqrt{1-f(x)^2}}$	