DERIVADAS

REGLAS DE DERIVACIÓN

Suma	$(f+g)'(x) = f'(x) + g'(x)$
Resta	$(f-g)'(x) = f'(x) - g'(x)$
Producto	$(fg)'(x) = f'(x)g(x) + f(x)g'(x)$
Cociente	$\left(\frac{f}{g}\right)'(x) = \frac{f'(x)g(x) - f(x)g'(x)}{(g(x))^2}$
Regla de la cadena	$(f(g(x)))'(x) = f'(g(x))g'(x)$
Derivada de la función inversa	$(f^{-1})'(x) = \frac{1}{f'(f^{-1}(x))}$

TABLA DE DERIVADAS

$f(x) = c, c$ constante	$f'(x) = 0$
$f(x) = x^n, n$ entero	$f'(x) = nx^{n-1}$
$f(x) = e^x$	$f'(x) = e^x$
$f(x) = \ln(x), x > 0$	$f'(x) = \frac{1}{x}$
$f(x) = \sin(x)$	$f'(x) = \cos(x)$
$f(x) = \cos(x)$	$f'(x) = -\sin(x)$
$f(x) = \arcsin(x)$	$f'(x) = \frac{1}{\sqrt{1-x^2}}$
$f(x) = \arccos(x)$	$f'(x) = -\frac{1}{\sqrt{1-x^2}}$
$f(x) = \arctan(x)$	$f'(x) = \frac{1}{1+x^2}$