

LISTA DE DERIVADAS SIMPLES

Función $f(x)$	Derivada $f'(x)$
$f(x) = k$	$f'(x) = 0$
$f(x) = x$	$f'(x) = 1$
$f(x) = x^p \quad p \in \mathbb{R}$	$f'(x) = px^{p-1}$
$f(x) = \ln x$	$f'(x) = \frac{1}{x}$
$f(x) = \log_a x$	$f'(x) = \frac{1}{x \ln a}$
$f(x) = e^x$	$f'(x) = e^x$
$f(x) = a^x$	$f'(x) = a^x \ln a$
$f(x) = \operatorname{sen} x$	$f'(x) = \operatorname{cos} x$
$f(x) = \operatorname{cos} x$	$f'(x) = -\operatorname{sen} x$
$f(x) = \operatorname{tg} x$	$f'(x) = \frac{1}{\operatorname{cos}^2 x} =$ $= 1 + \operatorname{tg}^2 x$
$f(x) = \operatorname{arcsen} x$	$f'(x) = \frac{1}{\sqrt{1-x^2}}$
$f(x) = \operatorname{arccos} x$	$f'(x) = \frac{-1}{\sqrt{1-x^2}}$
$f(x) = \operatorname{arctg} x$	$f'(x) = \frac{1}{1+x^2}$