TABLA DE DERIVADAS

Simples		**Compuestas**	
Función	**Derivada**	**Función**	**Derivada**
$y = c$	$y' = 0$		
$y = x$	$y' = 1$		
$y = x^n$	$y' = nx^{n-1}$	$y = f(x)^n$	$y' = nf(x)^{n-1} f'(x)$
$y = \sqrt{x}$	$y' = \dfrac{1}{2\sqrt{x}}$	$y = \sqrt{f(x)}$	$y' = \dfrac{f'(x)}{2\sqrt{f(x)}}$
$y = \sqrt[n]{x}$	$y' = \dfrac{1}{n \cdot \sqrt[n]{x^{n-1}}}$	$y = \sqrt[n]{f(x)}$	$y' = \dfrac{f'(x)}{n \cdot \sqrt[n]{f(x)^{n-1}}}$
$y = a^x \text{ con } a > 0$	$y' = a^x \ln a$	$y = a^{f(x)} \text{ con } a > 0$	$y' = f'(x) a^{f(x)} \ln a$
$y = e^x$	$y' = e^x$	$y = e^{f(x)}$	$y' = f'(x) e^{f(x)}$
$y = \log_a x$	$y' = \dfrac{1}{x} \log_a e$	$y = \log_a f(x)$	$y' = \dfrac{f'(x)}{f(x)} \log_a e$
$y = \ln x$	$y' = \dfrac{1}{x}$	$y = \ln f(x)$	$y' = \dfrac{f'(x)}{f(x)}$
$y = \text{sen } x$	$y' = \cos x$	$y = \text{sen } f(x)$	$y' = f'(x) \cos f(x)$
$y = \cos x$	$y = -\text{sen } x$	$y = \cos f(x)$	$y = -f'(x) \text{sen } f(x)$
$y = \text{tg } x$	$y' = 1 + \text{tg}^2 x$	$y = \text{tg } f(x)$	$y' = f'(x)[1 + \text{tg}^2 f(x)]$
$y = \text{arcsen } x$	$y' = \dfrac{1}{\sqrt{1 - x^2}}$	$y = \text{arcsen } f(x)$	$y' = \dfrac{f'(x)}{\sqrt{1 - f(x)^2}}$
$y = \arccos x$	$y' = \dfrac{-1}{\sqrt{1 - x^2}}$	$y = \arccos f(x)$	$y' = \dfrac{-f'(x)}{\sqrt{1 - f(x)^2}}$
$y = \text{arctg } x$	$y' = \dfrac{1}{1 + x^2}$	$y = \text{arctg } f(x)$	$y' = \dfrac{f'(x)}{1 + f(x)^2}$