REGLAS DE DERIVADAS

SUMA	$D\left[f(x)+g(x)\right]=f'(x)+g'(x)$	
PRODUCTO POR UN NÚMERO	$D\left[k.f(x)\right]=k.f'(x)$	
PRODUCTO	$D\left[f(x).g(x)\right]=f'(x).g(x)+f(x).g'(x)$	
COCIENTE	$D\left[\dfrac{f(x)}{g(x)}\right]=\dfrac{f'(x).g(x)-f(x).g'(x)}{\left[g(x)\right]^2}$	
COMPOSICIÓN (Regla de la cadena)	$D\left\{f\left[g(x)\right]\right\}=f'\left[g(x)\right].g'(x)$ $D\left\{f\left(g\left[h(x)\right]\right)\right\}=f'\left(g\left[h(x)\right]\right).g'\left[h(x)\right].h'(x)$	
POTENCIA	$D\left(x^k\right)=k.x^{k-1}$ $D\left(\sqrt{x}\right)=D\left(x^{1/2}\right)=\dfrac{1}{2\sqrt{x}}$ $D\left(\dfrac{1}{x}\right)=D\left(x^{-1}\right)=-\dfrac{1}{x^2}$	$D\left\{\left[f(x)\right]^k\right\}=k.\left[f(x)\right]^{k-1}.f'(x)$ $D\left[\sqrt{f(x)}\right]=\dfrac{1}{2\sqrt{f(x)}}.f'(x)$ $D\left[\dfrac{1}{f(x)}\right]=-\dfrac{1}{\left[f(x)\right]^2}.f'(x)$
TRIGONOMÉTRICA	$D\left(\sin x\right)=\cos x$ $D\left(\cos x\right)=-\sin x$ $D\left(\tan x\right)=1+\tan^2 x$	$D\left[\sin f(x)\right]=f'(x).\cos f(x)$ $D\left[\cos f(x)\right]=-f'(x).\sin f(x)$ $D\left[\tan f(x)\right]=\left[1+\tan^2 f(x)\right].f'(x)$
EXPONENCIALES	$D\left(e^x\right)=e^x$ $D\left(a^x\right)=a^x.\ln a$	$D\left[e^{f(x)}\right]=e^{f(x)}.f'(x)$ $D\left[a^{f(x)}\right]=a^{f(x)}.\ln a.f'(x)$
LOGARÍTMICAS	$D\left(\ln x\right)=\dfrac{1}{x}$ $D\left(\log_a x\right)=\dfrac{1}{x}.\dfrac{1}{\ln a}$	$D\left[\ln f(x)\right]=\dfrac{1}{f(x)}.f'(x)$ $D\left[\log_a f(x)\right]=\dfrac{1}{f(x)}.\dfrac{1}{\ln a}.f'(x)$