

REGRAS GERAIS	REGRAS PARTICULARES
$k' = 0$ $(f \pm g)' = f' \pm g'$	
$(kf)' = kf'$	$(kx)' = k, \quad x' = 1$
$(f \cdot g)' = f' \cdot g + f \cdot g'$	
$(f^n)' = n \cdot f^{n-1} \cdot f'$	$(x^n)' = n \cdot x^{n-1}$
$\left(\frac{f}{g}\right)' = \frac{f' \cdot g - f \cdot g'}{g^2}$	$\left(\frac{k}{f}\right)' = -\frac{k \cdot f'}{f^2}$ $\left(\frac{1}{x}\right)' = -\frac{1}{x^2}$
$(\sqrt{f})' = \frac{f'}{2\sqrt{f}} \quad (\sqrt[n]{f})' = \frac{f'}{n\sqrt[n]{f^{n-1}}}$	$(\sqrt{x})' = \frac{1}{2\sqrt{x}}$
$(e^f)' = f' \cdot e^f$ $(a^f)' = f' \cdot a^f \cdot \ln a$ $(\ln f)' = \frac{f'}{f}$ $(\log_a f)' = \frac{f'}{f \cdot \ln a}$	$(e^x)' = e^x$ $(a^x)' = a^x \cdot \ln a$ $(\ln x)' = \frac{1}{x}$ $(\log_a x)' = \frac{1}{x \cdot \ln a}$
$(\sin f)' = f' \cdot \cos f$ $(\cos f)' = -f' \cdot \sin f$ $(\tan f)' = \frac{f'}{\cos^2 f}$ $(\arctan f)' = \frac{f'}{1 + f^2}$	$(\sin x)' = \cos x$ $(\cos x)' = -\sin x$ $(\tan x)' = \frac{1}{\cos^2 x}$ $(\arctan x)' = \frac{1}{1 + x^2}$
$(f \circ g)'(x) = f'[g(x)] \cdot g'(x) \quad \text{com } y = f(x), \quad x = g(t)$	
$(f^{-1})'(y) = \frac{1}{f'(x)} \quad \text{com } y = f(x) \quad \text{e} \quad f'(x) \neq 0$	