

<b>REGULI DERIVARE</b>		
$(cf)^l = cf^l$	$(f \pm g)^l = f^l \pm g^l$	$(f \cdot g)^l = f^l \cdot g + f \cdot g^l$
$(f \cdot g \cdot h)^l = f^l \cdot g \cdot h + f \cdot g^l \cdot h + f \cdot g \cdot h^l$	$\left(\frac{f}{g}\right)^l = \frac{f^l \cdot g - f \cdot g^l}{g^2}$	$(f^{-1})^l(y) = \frac{1}{f^l(x)}$
$(f^g)^l = g \cdot f^{g-1} \cdot f^l + f^g \cdot \ln f \cdot g^l$	$(f \circ g)^l(x) = (f(g(x)))^l(x) = f^l(g(x)) \cdot g^l(x)$	
$c^l = 0$	$x^l = 1$	$(x^2)^l = 2x$ $(x^3)^l = 3x^2$ ..., $(x^n)^l = nx^{n-1}$
$(x^p)^l = px^{p-1}$	$(u^p)^l = n \cdot u^{p-1} \cdot u^l$	
$\left(\frac{1}{x}\right)^l = -\frac{1}{x^2}$	$\left(\frac{1}{u}\right)^l = -\frac{1}{u^2} \cdot u^l$	
$\left(\frac{1}{x^n}\right)^l = -\frac{n}{x^{n+1}}$	$\left(\frac{1}{u^n}\right)^l = -\frac{n}{u^{n+1}} \cdot u^l$	
$(\sqrt{x})^l = \frac{1}{2\sqrt{x}}$	$(\sqrt{u})^l = \frac{1}{2\sqrt{u}} \cdot u^l$	
$(\sqrt[n]{x})^l = \frac{1}{n \cdot \sqrt[n]{x^{n-1}}}$	$(\sqrt[n]{u})^l = \frac{1}{n \cdot \sqrt[n]{u^{n-1}}} \cdot u^l$	
$(e^x)^l = e^x$	$(e^u)^l = e^u \cdot u^l$	
$(a^x)^l = a^x \cdot \ln a$	$(a^u)^l = a^u \cdot \ln a \cdot u^l$	
$(\ln x)^l = \frac{1}{x}$ $(\lg x)^l = \frac{1}{x \cdot \ln 10}$	$(\ln u)^l = \frac{1}{u} \cdot u^l$ $(\lg u)^l = \frac{1}{u \cdot \ln 10} \cdot u^l$	
$(\log_b x)^l = \frac{1}{x \cdot \ln b}$	$(\log_b u)^l = \frac{1}{u \cdot \ln b} \cdot u^l$	
$(\sin x)^l = \cos x$	$(\sin u)^l = \cos u \cdot u^l$	
$(\cos x)^l = -\sin x$	$(\cos u)^l = -\sin u \cdot u^l$	
$(\operatorname{tg} x)^l = \frac{1}{\cos^2 x} = \operatorname{tg}^2 x + 1$	$(\operatorname{tgu})^l = \frac{1}{\cos^2 u} \cdot u^l = (\operatorname{tg}^2 u + 1) \cdot u^l$	
$(\operatorname{ctg} x)^l = -\frac{1}{\sin^2 x} = -(\operatorname{ctg}^2 x + 1)$	$(\operatorname{ctgu})^l = -\frac{1}{\sin^2 u} \cdot u^l = -(\operatorname{ctg}^2 u + 1) \cdot u^l$	
$(\arcsin x)^l = \frac{1}{\sqrt{1-x^2}}$	$(\arcsin u)^l = \frac{1}{\sqrt{1-u^2}} \cdot u^l$	
$(\arccos x)^l = -\frac{1}{\sqrt{1-x^2}}$	$(\arccos u)^l = -\frac{1}{\sqrt{1-u^2}} \cdot u^l$	
$(\operatorname{arctg} x)^l = \frac{1}{1+x^2}$	$(\operatorname{arctgu})^l = \frac{1}{1+u^2} \cdot u^l$	
$(\operatorname{arcctg} x)^l = -\frac{1}{1+x^2}$	$(\operatorname{arcctgu})^l = -\frac{1}{1+u^2} \cdot u^l$	

**TABEL DERIVATE**