

<u>$y = f(x)$</u>	<u>$y' = f'(x)$</u>
x	1
$k = n^{\circ}$	0
$u \pm v$	$u' \pm v'$
u^n	$n u^{n-1} u'$
$u v$	$u' v + u v'$
$\frac{u}{v}$	$\frac{u' v - u v'}{v^2}$
\sqrt{u}	$\frac{u'}{2\sqrt{u}}$
$\sqrt[n]{u}$	$\frac{u'}{n \sqrt[n]{u^{n-1}}}$
e^u	$u' e^u$
a^u	$u' a^u \ln a$
$\ln u$	$\frac{u'}{u}$
$\log_a u$	$\frac{u'}{u} \log_a e$
$\text{sen } u$	$u' [\cos u]$
$\cos u$	$-u' [\text{sen } u]$
$\text{tg } u$	$\frac{u'}{\cos^2 u} = u' [1 + \text{tg}^2 u]$
$\text{ctg } u$	$-\frac{u'}{\text{sen}^2 u} = -u' [1 + \text{ctg}^2 u]$
$\arcsen u$	$\frac{u'}{\sqrt{1-u^2}}$
$\arccos u$	$-\frac{u'}{\sqrt{1-u^2}}$
$\text{arctg } u$	$\frac{u'}{1+u^2}$
$\text{arcctg } u$	$-\frac{u'}{1+u^2}$