Derivadas de funciones elementales

y	y'	y	y'
k	0		
x	1		
x^n	nx^{n-1}	u^n	$nu^{n-1}u'$
a^x	$a^x \ln a$	a^u	$a^u \cdot \ln a \cdot u'$
e^x	e^x	e^u	$e^u \cdot u'$
u^v	$v \cdot u^{v-1} \cdot u' + u^v \cdot \ln u \cdot v'$		
$\sqrt{x}$	$\frac{1}{2\sqrt{x}}$	$\sqrt{u}$	$\frac{u'}{2\sqrt{u}}$
$\sqrt[n]{x}$	$\frac{1}{n\sqrt[n]{x^{n-1}}}$	$\sqrt[n]{u}$	$\frac{u'}{n\sqrt[n]{u^{n-1}}}$
$\log_a x$	$\frac{1}{x}\log_a e$	$\log_a u$	$\frac{u'}{u}\log_a e$
$\ln x$	$\frac{1}{x}$	$\ln u$	$\frac{u'}{u}$
$\operatorname{sen} x$	$\cos x$	$\operatorname{sen} u$	$\cos u \cdot u'$
$\cos x$	$-\operatorname{sen} x$	$\cos u$	$-\operatorname{sen} u \cdot u'$
$\operatorname{tg} x$	$\frac{1}{\cos^2 x}$	$\operatorname{tg} u$	$\frac{u'}{\cos^2 u}$
$\operatorname{cotg} x$	$\frac{-1}{\operatorname{sen}^2 x}$	$\operatorname{cotg} u$	$\frac{-u'}{\operatorname{sen}^2 u}$
$\sec x$	$\frac{\operatorname{sen} x}{\cos^2 x}$	$\sec u$	$\frac{\operatorname{sen} u}{\cos^2 u}u'$
$\operatorname{cosec} x$	$\frac{-\cos x}{\operatorname{sen}^2 x}$	$\operatorname{cosec} u$	$\frac{-\cos u}{\operatorname{sen}^2 u}u'$
arc $\operatorname{sen} x$	$\frac{1}{\sqrt{1-x^2}}$	arc $\operatorname{sen} u$	$\frac{u'}{\sqrt{1-u^2}}$
arc $\cos x$	$\frac{-1}{\sqrt{1-x^2}}$	arc $\cos u$	$\frac{-u'}{\sqrt{1-u^2}}$
arc $\operatorname{tg} x$	$\frac{1}{1+x^2}$	arc $\operatorname{tg} u$	$\frac{u'}{1+u^2}$
arc $\operatorname{cotg} x$	$\frac{-1}{1+x^2}$	arc $\operatorname{cotg} u$	$\frac{-u'}{1+u^2}$
arc $\sec x$	$\frac{1}{x\sqrt{x^2-1}}$	arc $\sec u$	$\frac{u'}{u\sqrt{u^2-1}}$
arc $\operatorname{cosec} x$	$\frac{-1}{x\sqrt{x^2-1}}$	arc $\operatorname{cosec} u$	$\frac{-u'}{u\sqrt{u^2-1}}$