

Tabla de derivadas

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Funciones Algebraicas

<i>Función</i>	<i>Derivada</i>	<i>Función</i>	<i>Derivada</i>
$y = K$	$y' = 0$	$y = x$	$y' = 1$
$y = u \pm v$	$y' = u' \pm v'$	$y = K \cdot u$	$y' = K \cdot u'$
$y = u \cdot v$	$y' = u' \cdot v + u \cdot v'$	$y = \frac{u}{v}$	$y' = \frac{u' \cdot v - u \cdot v'}{v^2}$

Funciones Exponenciales

<i>Función</i>	<i>Derivada</i>	<i>Función</i>	<i>Derivada</i>
$y = u^a$	$y' = au^{a-1}u'$	$y = u^{-a}$	$y' = \frac{-au'}{u^{a+1}}$
$y = \sqrt[n]{u} = u^{1/n}$	$y' = \frac{u'}{n\sqrt[n]{u^{n-1}}} = \frac{1}{n}u^{1/n-1}$	$y = a^u$	$y' = a^u \cdot u' \cdot \ln a$
$y = u^v$	$y' = v \cdot u^{v-1} \cdot u' + u^v \cdot v' \cdot \ln u$	$y = e^u$	$y' = e^u \cdot u'$
$y = u $	$y' = \frac{u}{ u }u'$		

Funciones Trigonómicas

<i>Función</i>	<i>Derivada</i>	<i>Función</i>	<i>Derivada</i>
$y = \operatorname{sen} u$	$y' = u' \cos u$	$y = \operatorname{cos} u$	$y' = -u' \operatorname{sen} u$
$y = \operatorname{tg} u$	$y' = \frac{u'}{\cos^2 u} = u' \cdot (1 + \operatorname{tg}^2 u)$	$y = \operatorname{cotg} u$	$y' = \frac{-u'}{\operatorname{sen}^2 u} = -u' \cdot (1 + \operatorname{cotg}^2 u)$
$y = \operatorname{sec} u$	$y' = \frac{u' \operatorname{sen} u}{\cos^2 u}$	$y = \operatorname{cosec} u$	$y' = \frac{-u' \operatorname{cos} u}{\operatorname{sen}^2 u}$

Funciones Argumento

<i>Función</i>	<i>Derivada</i>	<i>Función</i>	<i>Derivada</i>
$y = \arcsen u$	$y' = \frac{u'}{\sqrt{1-u^2}}$	$y = \arccos u$	$y' = -\frac{u'}{\sqrt{1-u^2}}$
$y = \arctg u$	$y' = \frac{u'}{1+u^2}$	$y = \operatorname{arccotg} u$	$y' = -\frac{u'}{1+u^2}$
$y = \operatorname{arcsec} u$	$y' = \frac{u'}{u\sqrt{u^2-1}}$	$y = \operatorname{arccosec} u$	$y' = -\frac{u'}{u\sqrt{u^2-1}}$

Función Logarítmica

<i>Función</i>	<i>Derivada</i>	<i>Función</i>	<i>Derivada</i>
$y = \log_a u$	$y' = \frac{u'}{u \ln a}$	$y = \ln u$	$y' = \frac{u'}{u}$

Función Inversa

<i>Función</i>	<i>Derivada</i>		
$y = f^{-1}(x)$	$y' = \frac{1}{f'[f^{-1}(x)]}$		