Tabla de derivadas

Función	Derivada	Ejemplos	
Constante			
$y=k$	$y'=0$	$y=8$	$y'=0$
Identidad			
$y=x$	$y'=1$	$y=x$	$y'=1$
Funciones potenciales			
$y=u^m$	$y'=mu^{m-1}u'$	$y=(2x^2+1)^3$	$y'=3(2x^2+1)^2\cdot 4x$
$y=\frac{1}{u^m}$	$y'=-\frac{mu'}{u^{m+1}}$	$y=\frac{1}{(2x+1)^3}$	$y'=-\frac{6}{(2x+1)^4}$
$y=\sqrt{u}$	$y'=\frac{u'}{2\sqrt{u}}$	$y=\sqrt{5x}$	$y'=\frac{5}{2\sqrt{5x}}$
$y=\sqrt[m]{u}$	$y'=\frac{u'}{m\sqrt[m]{u^{m-1}}}$	$y=\sqrt[5]{3x^2}$	$y'=\frac{6x}{5\sqrt[5]{(3x^2)^4}}$
Funciones exponenciales			
$y=e^u$	$y'=u'e^u$	$y=e^{3x^2+1}$	$y'=6xe^{3x^2+1}$
$y=a^u$	$y'=u'a^u La$	$y=5^{3x-4}$	$y'=3\cdot 5^{3x-4}L5$
Funciones logarítmicas			
$y=Lu$	$y'=\frac{u'}{u}$	$y=L(x^2+7x)$	$y'=\frac{2x+7}{x^2+7x}$
$y=\log_a u$	$y'=\frac{u'}{u}\log_a e$	$y=\log_2(5x+7)$	$y'=\frac{5}{5x+7}\log_2 e$
Funciones trigonométricas			
$y=\operatorname{sen} u$	$y'=u'\cos u$	$y=\operatorname{sen} 5x$	$y'=5\cos 5x$
$y=\cos u$	$y'=-u'\operatorname{sen} u$	$y=\cos 3x^2$	$y'=-6x\operatorname{sen} x^2$

https://aprende-derivadas.netlify.app/courses.html

Tabla de derivadas

$y = \operatorname{tg} u$	$y' = u' \sec^2 u$	$y = \operatorname{tg} 7x$	$y' = 7\sec^2 7x$
$y = \operatorname{cotg} u$	$y' = u' \operatorname{cosec}^2 u$	$y = \operatorname{cotg}(4x+5)$	$y' = -4\operatorname{cosec}^2(4x+5)$
$y = \sec u$	$y' = u' \sec u \cdot \operatorname{tg} u$	$y = \sec x^3$	$y' = 3x^2 \sec x^3 \operatorname{tg} x^3$
$y = \operatorname{cosec} u$	$y' = -u' \operatorname{cosec} u \operatorname{cotg} u$	$y = \operatorname{cosec} x^2$	$y' = -2x \operatorname{cosec} x^2 \operatorname{cotg} x^2$
$y = \operatorname{arcsen} u$	$y' = \dfrac{u'}{\sqrt{1-u^2}}$	$y = \operatorname{arcsen} x^2$	$y' = \dfrac{2x}{\sqrt{1-x^4}}$
$y = \arccos u$	$y' = \dfrac{-u'}{\sqrt{1-u^2}}$	$y = \arccos 3x$	$y' = \dfrac{-3}{\sqrt{1-9x^2}}$
$y = \operatorname{arctg} u$	$y' = \dfrac{u'}{1+u^2}$	$y = \operatorname{arctg} 3x$	$y' = \dfrac{3}{1+9x^2}$
Derivadas de sumas, restas, productos y cocientes de funciones			
$y = ku$	$y' = ku'$	$y = 3x^5$	$y' = 3 \cdot 5x^4 = 15x^4$
$y = u + v - w$	$y' = u' + v' - w'$	$y = 3x^2 - 2x + 5$	$y' = 6x - 2$
$y = uv$	$y' = u'v + uv'$	$y = x^2 \cos x$	$y' = 2x\cos x + x^2(-\operatorname{sen} x)$
$y = \dfrac{u}{v}$	$y' = \dfrac{u'v - uv'}{v^2}$	$y = \dfrac{2x^2}{x^3-1}$	$y' = \dfrac{4x(x^3-1) - 2x^2(3x^2)}{(x^3-1)^2}$

https://aprende-derivadas.netlify.app/courses.html