

TABLA DE DERIVADAS

	Función	Derivada
Tipo potencial	$y = k \cdot u^n$	$y' = n \cdot k \cdot u^{n-1} \cdot u'$
Tipo racional	$y = \sqrt[n]{u}$	$y' = \frac{u'}{n \sqrt[n]{u^{n-1}}}$
Tipo exponencial	$y = e^{f(x)}$	$y' = e^{f(x)} \cdot f'(x)$
	$y = a^{f(x)}$	$y' = a^{f(x)} \cdot f'(x) \cdot \ln a$
Tipo logarítmico	$y = \ln f(x)$	$y' = \frac{f'(x)}{f(x)}$
	$y = \log_a f(x)$	$y' = \frac{f'(x)}{f(x)} \cdot \frac{1}{\ln a}$
Tipo seno	$y = \operatorname{sen} f(x)$	$y' = f'(x) \cdot \cos f(x)$
Tipo coseno	$y = \operatorname{cos} f(x)$	$y' = -f'(x) \cdot \operatorname{sen} f(x)$
Tipo tangente	$y = \operatorname{tg} f(x)$	$y' = \frac{f'(x)}{\cos^2 f(x)}$
Tipo cotangente	$y = \operatorname{ctg} f(x)$	$y' = \frac{-1}{\operatorname{sen}^2 f(x)} \cdot f'(x)$
Formaciones Arcos	$y = \operatorname{arc} \operatorname{sen} f(x)$	$y' = \frac{1}{\sqrt{1-f^2(x)}} \cdot f'(x)$
	$y = \operatorname{arc} \operatorname{cos} f(x)$	$y' = \frac{-1}{\sqrt{1-f^2(x)}} \cdot f'(x)$
	$y = \operatorname{arc} \operatorname{tg} f(x)$	$y' = \frac{1}{1+f^2(x)} \cdot f'(x)$

