

Integrales		Derivadas		Relaciones Trigonométricas					
$\int dx / \text{Sen } x$	$\text{Ln} \left[\text{Tg } \frac{x}{2} \right] + C$	$c \cdot f(x)$	$c \cdot f'(x)$	$\text{Sen}(a+b) = \text{Sen } a \cdot \text{Cos } b + \text{Sen } b \cdot \text{Cos } a$ $\text{Sen}(a-b) = \text{Sen } a \cdot \text{Cos } b - \text{Sen } b \cdot \text{Cos } a$					
$\int dx / \text{Cos } x$	$\text{Ln} \left[\text{Tg } x + \left(\frac{1}{\text{Cos } x} \right) \right] + C$	$[f(x)]^n$	$n \cdot [f(x)]^{n-1} \cdot f'(x)$	$\text{Cos}(a+b) = \text{Cos } a \cdot \text{Cos } b - \text{Sen } a \cdot \text{Sen } b$ $\text{Cos}(a-b) = \text{Cos } a \cdot \text{Cos } b + \text{Sen } a \cdot \text{Sen } b$					
$\int dx / \text{Cos}^2 x$	$\text{Tg } x + C$	$\text{Ln } f(x)$	$\frac{f'(x)}{f(x)}$	$\text{Tan}(a+b) = (\text{tan } a + \text{tan } b) / (1 - \text{tan } a \cdot \text{tan } b)$ $\text{Tan}(a-b) = (\text{tan } a - \text{tan } b) / (1 + \text{tan } a \cdot \text{tan } b)$					
$\int dx / \text{Sen}^2 x$	$-\text{Cotg } x + C$	$\text{Log}_a f(x)$	$\frac{f'(x)}{f(x)} \cdot \frac{1}{\text{Log } a}$	$\text{Cos } 2a = \text{Cos}^2 a - \text{Sen}^2 a$ $\text{Sen } 2a = 2 \cdot \text{Sen } a \cdot \text{Cos } a$		$\text{Cos } 2a = (1 + \text{Cos } 2a) / 2$ $\text{Sen } 2a = (1 - \text{Cos } 2a) / 2$ $\text{Cos } a = \text{Cos}^2 a / 2 - \text{Sen}^2 a / 2$ $\text{Sen } a = 2 \cdot \text{Sen } a / 2 \cdot \text{Cos } a / 2$			
$\int e^x dx$	$e^x + C$	$e^{f(x)}$	$e^{f(x)} \cdot f'(x)$	$\text{Sh}^2 a = (\text{Ch } 2a - 1) / 2$ $\text{Ch}^2 a = (1 + \text{Ch } 2a) / 2$ $\text{Ch}^2 a - \text{Sh}^2 a = 1$		$\text{Ch } 2a = \text{Ch}^2 a + \text{Sh}^2 a$ $\text{Sh } 2a = 2 \cdot \text{Sh } a \cdot \text{Ch } a$ $\text{Cos}^2 a + \text{Sen}^2 a = 1$			
$\int dx / x$	$\text{Ln} [x] + C$	$a^{f(x)}$	$a^{f(x)} \cdot \text{Ln } a \cdot f'(x)$	$\text{Ch}(a+b) = \text{Ch } a \cdot \text{Ch } b + \text{Sh } a \cdot \text{Sh } b$ $\text{Sh}(a+b) = \text{Sh } a \cdot \text{Ch } b + \text{Ch } a \cdot \text{Sh } b$					
$\int u dv$	$u \cdot v - \int v \cdot du$	$\text{Sen } f(x)$	$\text{Cos } f(x) \cdot f'(x)$	$\text{Sen } 3x = 3 \text{Sen } x - 4 \text{Sen}^3 x$ $\text{Cos } 3x = 4 \text{Cos}^3 x - 3 \text{Cos } x$		$\text{tg} = \text{sen} / \text{cos}$ $\text{cotg} = \text{cos} / \text{sen}$	$\text{sec} = 1 / \text{Cos}$ $\text{Cosec} = 1 / \text{sen}$		
$\int a^x dx$	$\frac{a^x}{\text{Ln } a} + C$	$\text{Cos } f(x)$	$-\text{Sen } f(x) \cdot f'(x)$	$\text{Ch } x = e^x + e^{-x} / 2$ $\text{Sh } x = e^x - e^{-x} / 2$		$\text{Arg Ch } x = \text{Ln} (x + \sqrt{x^2 - 1})$ $\text{Arg Sh } x = \text{Ln} (x + \sqrt{x^2 + 1})$			
$\int \text{Ln } x dx$	$x \cdot (\text{Ln } x - 1) + C$	$\text{Tg } f(x)$	$f'(x) / \text{Cos}^2 f(x)$	$\text{Sen } ax \cdot \text{Cos } bx = 1/2 [\text{Sen}(a+b)x + \text{Sen}(a-b)x]$ $\text{Sen } ax \cdot \text{Sen } bx = 1/2 [\text{Cos}(a-b)x - \text{Cos}(a+b)x]$					
$\int \text{Sen } x dx$	$-\text{Cos } x + C$	$\text{Cotg } f(x)$	$-1 \cdot f'(x) / \text{Sen}^2 f(x)$	$\text{Cos } ax \cdot \text{Cos } bx = 1/2 [\text{Cos}(a+b)x + \text{Cos}(a-b)x]$					
$\int \text{Cos } x dx$	$\text{Sen } x + C$	$\text{Sec } f(x)$	$\text{Sec } f(x) \cdot \text{Tg } f(x) \cdot f'(x)$	2º Cuadrante $\pi - \phi$		1º Cuadrante ϕ			
$\int \text{Tg } x dx$	$-\text{Ln} [\text{Cos } x] + C$	$\text{Cosec } f(x)$	$-\text{Cosec } f(x) \cdot \text{Cotg } f(x) \cdot f'(x)$	3º Cuadrante $\phi - \pi$		4º Cuadrante $2\pi - \phi$			
$\int dx / (1+x^2)$	$\text{Arc Tg } x + C$	$\text{Arc Sen } f(x)$	$f'(x) / \sqrt{1 - [f(x)]^2}$	Grados	Radianes	Seno	Coseno	Tangente	
$\int dx / (1-x^2)$	$\text{Arg Th } x + C$	$\text{Arc Cos } f(x)$	$-1 \cdot f'(x) / \sqrt{1 - [f(x)]^2}$	0	0	0	1	0	
$\int dx / \sqrt{1+x^2}$	$\text{Arg Sh } x + C$	$\text{Arc Tg } f(x)$	$f'(x) / (1 + [f(x)]^2)$	30	$\pi/6$	1/2	$\sqrt{3}/2$	$1/\sqrt{3}$	
$\int dx / \sqrt{1-x^2}$	$\text{Arc Sen } x + C$	$\text{Sh } f(x)$	$f'(x) \cdot \text{Ch } f(x)$	45	$\pi/4$	$\sqrt{2}/2$	$\sqrt{2}/2$	1	
$\int dx / \sqrt{x^2-1}$	$\text{Arg Ch } x + C$	$\text{Ch } f(x)$	$f'(x) \cdot \text{Sh } f(x)$	60	$\pi/3$	$\sqrt{3}/2$	1/2	$\sqrt{3}$	
$\int dx / \sqrt{x^2+a^2}$	$\frac{1}{a} \text{Arg Sh} \left(\frac{x}{a} \right) + C$	$\text{Th } f(x)$	$f'(x) / \text{Ch}^2 f(x)$	90	$\pi/2$	1	0	Inf.	
$\int dx / \sqrt{x^2-a^2}$	$\frac{1}{a} \text{Arg Ch} \left(\frac{x}{a} \right) + C$	$\text{Arg Sh } f(x)$	$f'(x) / \sqrt{1 + [f(x)]^2}$	$(a+b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$ $(a-b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$					
$\int dx / \sqrt{a^2-x^2}$	$\text{Arc Sen} \left(\frac{x}{a} \right) + C$	$\text{Arg Ch } f(x)$	$f'(x) / \sqrt{([f(x)]^2 - 1)}$	Transformaciones con Variables					
$\int dx / \sqrt{x^2+a}$	$\text{Ln} [x + \sqrt{x^2+a}] + C$	Propiedades de los Logaritmos		$\text{Tg } a/2 = t$ $\text{Sen } a = 2t / [1+t^2]$		$\sqrt{a^2-x^2} = (x=a \text{ Sen } t) = a \text{ Cos } t$ $\sqrt{x^2-a^2} = (x=a \text{ Sec } t) = a \text{ Tg } t$ $\sqrt{x^2+a^2} = (x=a \text{ Tg } t) = a \text{ Sec } t$			
$\int dx / (a^2-x^2)$	$ x < a \rightarrow \frac{1}{a} \text{Arg Th} \left(\frac{x}{a} \right) + C$ $x = \pm a \rightarrow \frac{1}{2a} \text{Ln} \left[\frac{a+x}{a-x} \right] + C$	$\text{Log}(a-b) = \text{Log } a - \text{Log } b$ $\text{Log}(x/y) = \text{Log } x - \text{Log } y$ $\text{Log } x^y = y \cdot \text{Log } x$ $\text{Log }_x y = \text{Log } y / \text{Log } x$ $\text{Log}_a b = c \rightarrow a^c = b$		$L0 = \infty$ $L1 = 0$ $e^{\infty} = 0$ $e^0 = 1$ $e^{15} = 5$	$\text{Sen}(-a) = -\text{Sen } a$ $\text{Sen}(\pi+a) = -\text{Sen } a$ $\text{Sen}(\pi-a) = \text{Sen } a$ $\text{Sen}(\pi/2+a) = \text{Cos } a$ $\text{Sen}(\pi/2-a) = \text{Cos } a$		$\text{Cos}(-a) = \text{Cos } a$ $\text{Cos}(\pi+a) = -\text{Cos } a$ $\text{Cos}(\pi-a) = -\text{Cos } a$ $\text{Cos}(\pi/2+a) = -\text{Sen } a$ $\text{Cos}(\pi/2-a) = \text{Sen } a$		$\text{Tg}(-a) = -\text{Tg } a$ $\text{Tg}(\pi+a) = \text{Tg } a$ $\text{Tg}(\pi-a) = -\text{Tg } a$ $\text{Tg}(\pi/2+a) = -1/\text{Tg } a$ $\text{Tg}(\pi/2-a) = 1/\text{Tg } a$
$\int dx / (x^2-a^2)$	$\frac{1}{2a} \text{Ln} \left[\frac{x-a}{x+a} \right] + C$	Indeterminaciones		Binomio de Newton					
$\int dx / (x^2+a^2)$	$\frac{1}{a} \text{Arc Tg} \left(\frac{x}{a} \right) + C$	0/0	∞/∞	0 · ∞	$\infty \cdot \infty$	1^∞	∞^0	0^0	$(a+b)^n = a^n + \frac{n}{1!} a^{n-1} b + \frac{n(n-1)}{2!} a^{n-2} b^2 + \frac{n(n-1)(n-2)}{3!} a^{n-3} b^3 \dots$