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TABLA DE INTEGRALES

Función simple	**Función compuesta**
$\int dx = x + c$	
$\int k\,dx = kx + c$	
$\int x^n\,dx = \dfrac{x^{n+1}}{n+1} + c \qquad (n \neq 1)$	$\int u(x)^n \cdot u'(x)\,dx = \dfrac{u(x)^{n+1}}{n+1} + c \qquad (n \neq 1)$
$\int \dfrac{dx}{x} = \ln|x| + c$	$\int \dfrac{u'(x)}{u(x)}\,dx = \ln|u(x)| + c$
$\int e^x\,dx = e^x + c$	$\int e^{u(x)} \cdot u'(x)\,dx = e^{u(x)} + c$
$\int a^x\,dx = \dfrac{a^x}{\ln a} + c$	$\int a^{u(x)} \cdot u'(x)\,dx = \dfrac{a^{u(x)}}{\ln a} + c$
$\int sen\,x\,dx = -\cos x + c$	$\int sen\,u(x)\,dx = -\cos u(x) + c$
$\int \cos x\,dx = sen\,x + c$	$\int \cos u(x)\,dx = sen\,u(x) + c$
$\int \dfrac{1}{\cos^2 x}\,dx = tg\,x + c$ $\int (1 + tg^2 x)\,dx = tg\,x + c$	$\int \dfrac{u'(x)}{\cos^2 u(x)}\,dx = tg\,u(x) + c$ $\int (1 + tg^2 u(x))u'(x)\,dx = tg\,u(x) + c$
$\int -\dfrac{1}{sen^2 x}\,dx = cotg\,x + c$ $\int (-1 - cotg^2 x)\,dx = cotg\,x + c$	$\int -\dfrac{u'(x)}{sen^2 u(x)}\,dx = cotg\,u(x) + c$ $\int (-1 - tg^2 u(x))u'(x)\,dx = cotg\,u(x) + c$
$\int \dfrac{sen\,x}{\cos^2 x}\,dx = \sec x + c$	$\int \dfrac{u'(x) \cdot sen\,u(x)}{\cos^2 u(x)}\,dx = \sec u(x) + c$
$\int -\dfrac{\cos x}{sen^2 x}\,dx = co\sec x + c$	$\int -\dfrac{u'(x) \cdot \cos u(x)}{sen^2 u(x)}\,dx = co\sec u(x) + c$
$\int \dfrac{1}{\sqrt{1-x^2}}\,dx = arc\,sen\,x + c$	$\int \dfrac{u'(x)}{\sqrt{1-u^2(x)}}\,dx = arc\,sen\,u(x) + c$
$\int -\dfrac{1}{\sqrt{1-x^2}}\,dx = arc\cos x + c$	$\int -\dfrac{u'(x)}{\sqrt{1-u^2(x)}}\,dx = arc\cos u(x) + c$
$\int \dfrac{1}{1+x^2}\,dx = arc\,tg\,x + c$	$\int \dfrac{u'(x)}{1+u^2(x)}\,dx = arc\,tg\,u(x) + c$