TABLA INTEGRALES INMEDIATAS

FUNCIÓN SIMPLE	FUNCIÓN COMPUESTA
$\int x^n\,dx = \frac{x^{n+1}}{n+1} + C, si\ n \neq -1$	$\int f(x)^n \cdot f'(x)\,dx = \frac{f(x)^{n+1}}{n+1} + C, si\ n \neq -1$
$\int \frac{1}{x}\,dx = \ln\lvert x\rvert + C$	$\int \frac{1}{f(x)} \cdot f'(x)\,dx = \ln\lvert f(x)\rvert + C$
$\int e^x\,dx = e^x + C$	$\int e^{f(x)} \cdot f'(x)\,dx = e^{f(x)} + C$
$\int a^x\,dx = \frac{a^x}{\ln a} + C$	$\int a^{f(x)} \cdot f'(x)\,dx = \frac{a^{f(x)}}{\ln a} + C$
$\int \operatorname{sen} x\ dx = -\cos x + C$	$\int \operatorname{sen}\big(f(x)\big) \cdot f'(x)\ dx = -\cos(f(x)) + C$
$\int \cos x\ dx = \operatorname{sen} x + C$	$\int \cos\big(f(x)\big) \cdot f'(x)\ dx = \operatorname{sen}(f(x)) + C$
$\int \tan x\ dx = -\ln\lvert\cos x\rvert + C$	$\int \tan(f(x)) \cdot f'(x)\ dx = -\ln\lvert\cos(f(x))\rvert + C$
$\int \operatorname{cotan} x\ dx = \ln\lvert\operatorname{sen} x\rvert + C$	$\int \operatorname{cotan}(f(x)) \cdot f'(x)\ dx = \ln\lvert\operatorname{sen}(f(x))\rvert + C$
$\int \frac{1}{\cos^2 x}\,dx = \tan x + C$	$\int \frac{1}{\cos^2(f(x))} \cdot f'(x)\,dx = \tan(f(x)) + C$
$\int \frac{1}{\operatorname{sen}^2 x}\,dx = -\operatorname{cotan} x + C$	$\int \frac{1}{\operatorname{sen}^2(f(x))} \cdot f'(x)\,dx = -\operatorname{cotan}(f(x)) + C$
$\int \frac{1}{\sqrt{1-x^2}}\,dx = \operatorname{arcsen} x + C$	$\int \frac{1}{\sqrt{1-(f(x))^2}} \cdot f'(x)\,dx = \operatorname{arcsen}(f(x)) + C$
$\int \frac{-1}{\sqrt{1-x^2}}\,dx = \arccos x + C$	$\int \frac{-1}{\sqrt{1-(f(x))^2}} \cdot f'(x)\,dx = \arccos(f(x)) + C$
$\int \frac{1}{1+x^2}\,dx = \arctan x + C$	$\int \frac{1}{1+(f(x))^2} \cdot f'(x)\,dx = \arctan(f(x)) + C$