TABLA DE INTEGRALES INMEDIATAS

$\int k dx = kx + C, \qquad k \in \mathbb{R}$	
$\int x^k dx = \frac{x^{k+1}}{k+1} + C, \qquad k \neq -1$	$\int f(x)^k \cdot f'(x) dx = \frac{f(x)^{k+1}}{k+1} + C, \qquad k \neq -1$
$\int \frac{1}{x}\, dx = \ln\|x\| + C$	$\int \frac{f'(x)}{f(x)}\, dx = \ln\|f(x)\| + C$
$\int e^x dx = e^x + C$	$\int e^{f(x)} f'(x) = e^{f(x)} + C$
$\int a^x dx = \frac{a^x}{\ln a} + C, \qquad a > 0$	$\int a^{f(x)} f'(x) dx = \frac{a^{f(x)}}{\ln a} + C, \qquad a > 0$
$\int \operatorname{sen}(x) dx = -\cos(x) + C$	$\int \operatorname{sen}(f(x)) f'(x) dx = -\cos(f(x)) + C$
$\int \cos(x) dx = \operatorname{sen}(x) + C$	$\int \cos(f(x)) f'(x) dx = \operatorname{sen}(f(x)) + C$
$\int \left(1 + \tan^2(x)\right) dx = \tan(x) + C$	$\int \left(1 + \tan^2(f(x))\right) f'(x) dx = \tan(f(x)) + C$
$\int -\left(1 + \cot^2(x)\right) dx = \cot(x) + C$	$\int -\left(1 + \cot^2(f(x))\right) f'(x) dx = \cot(f(x)) + C$
$\int \frac{1}{\sqrt{1-x^2}}\, dx = \operatorname{arc\,sen}(x) + C$	$\int \frac{f'(x)}{\sqrt{1-f(x)^2}}\, dx = \operatorname{arc\,sen}(f(x)) + C$
$\int \frac{1}{\sqrt{1+x^2}}\, dx = \operatorname{arg\,senh}(x) + C$	$\int \frac{f'(x)}{\sqrt{1+f(x)^2}}\, dx = \operatorname{arg\,senh}(f(x)) + C$
$\int \frac{1}{1+x^2}\, dx = \arctan(x) + C$	$\int \frac{f'(x)}{1+f(x)^2}\, dx = \arctan(f(x)) + C$