Tabella integrali indefiniti

INFOMAAT
CENTRO RIPETIZIONI
SINCE 2011

Proprietà dell'integrale

$$\int [f(x) + g(x)]\,dx = \int f(x)\,dx + \int g(x)\,dx$$

$$\int k \cdot f(x)\,dx = k \cdot \int f(x)\,dx$$

INTEGRALI IMMEDIATI	INTEGRALI COMPOSTI
$\int 1\,dx = x + c$	
$\int x^n\,dx = \frac{x^{n+1}}{n+1} + c$	$\int [f(x)]^n \cdot f'(x)\,dx = \frac{f(x)^{n+1}}{n+1}$
$\int \frac{1}{x}\,dx = \ln\lvert x\rvert + c$	$\int \frac{f'(x)}{f(x)}\,dx = \ln[f(x)] + c$
$\int \cos x\,dx = \sin x + c$	$\int \cos f(x) \cdot f'(x)\,dx = \sin f(x) + c$
$\int \sin x\,dx = -\cos x + c$	$\int \sin f(x) \cdot f'(x)\,dx = -\cos f(x) + c$
$\int \frac{1}{\cos^2 x}\,dx = \tan x + c$	$\int \frac{f'(x)}{\cos^2[f(x)]}\,dx = \operatorname{tg} f(x)$
$\int \frac{1}{\sin^2 x}\,dx = -\cot x + c$	$\int \frac{f'(x)}{\sin^2[f(x)]}\,dx = \operatorname{cotg} f(x)$
$\int e^x\,dx = e^x + c$	$\int f'(x) \cdot e^{f(x)}\,dx = e^{f(x)}$
$\int a^x\,dx = \frac{1}{\ln\lvert a\rvert} \cdot a^x + c$	$\int f'(x) \cdot a^{f(x)}\,dx = \frac{a^{f(x)}}{\ln a} + c$
$\int \frac{1}{\sqrt{1-x^2}}\,dx = \arcsin x + c = -\arccos x + c$	$\int \frac{f'(x)}{\sqrt{1-[f(x)]^2}}\,dx = \operatorname{arsin}[f(x)] + c$
$\int \frac{1}{1+x^2}\,dx = \arctan x + c$	$\int \frac{f'(x)}{1+[f(x)]^2}\,dx = \operatorname{arctg}[f(x)] + c$