1 Derivadas

Função	Derivada
u^r	$r\,u^{r-1}u'$
$\ln\lvert u\rvert$	$\frac{u'}{u}$
e^u	$u'\,e^u$
a^u	$u'\,a^u\ln a\ (a>0, a\neq 1)$
$\operatorname{sen} u$	$u'\cos u$
$\cos u$	$-u'\operatorname{sen} u$
$\operatorname{senh} u$	$u'\cosh u$
$\cosh u$	$u'\operatorname{senh} u$

Função	Derivada
$\operatorname{tg} u$	$u'\sec^2 u$
$\operatorname{cotg} u$	$-u'\operatorname{cosec}^2 u$
$\sec u$	$u'\sec u\operatorname{tg} u$
$\operatorname{cosec} u$	$-u'\operatorname{cosec} u\operatorname{cotg} u$
$\operatorname{arcsen} u$	$\frac{u'}{\sqrt{1-u^2}}$
$\operatorname{arctg} u$	$\frac{u'}{1+u^2}$
$\arccos u$	$-\frac{u'}{\sqrt{1-u^2}}$
$\operatorname{arccotg} u$	$-\frac{u'}{1+u^2}$

2 Primitivas

Função	Primitiva
$u^r\,u'$	$\frac{u^{r+1}}{r+1}\ (r\neq -1)$
$\frac{u'}{u}$	$\ln\lvert u\rvert$
$u'\,e^u$	e^u
$u'\,a^u$	$\frac{a^u}{\ln a}\ (a>0, a\neq 1)$
$u'\cos u$	$\operatorname{sen} u$
$u'\operatorname{sen} u$	$-\cos u$
$u'\cosh u$	$\operatorname{senh} u$
$u'\operatorname{senh} u$	$\cosh u$

Função	Primitiva
$u'\sec^2 u$	$\operatorname{tg} u$
$u'\operatorname{cosec}^2 u$	$-\operatorname{cotg} u$
$u'\sec u\operatorname{tg} u$	$\sec u$
$u'\operatorname{cosec} u\operatorname{cotg} u$	$-\operatorname{cosec} u$
$\frac{u'}{\sqrt{1-u^2}}$	$\operatorname{arcsen} u$
$\frac{u'}{1+u^2}$	$\operatorname{arctg} u$
$u'\sec u$	$\ln\lvert\sec u+\operatorname{tg} u\rvert$
$u'\operatorname{cosec} u$	$-\ln\lvert\operatorname{cosec} u+\operatorname{cotg} u\rvert$

3 Primitivas quase imediatas: exercícios

a) $\int x(1+x^2)^9\,dx$ b) $\int \operatorname{sen} x\cos^5 x\,dx$ c) $\int \frac{x^5}{1+x^6}\,dx$ d) $\int \operatorname{tg} x\,dx$

e) $\int \frac{1}{1+4x^2}\,dx$ f) $\int e^{\operatorname{tg} x}\sec^2 x\,dx$ g) $\int x7^{x^2}\,dx$ h) $\int \operatorname{tg}^2 x\,dx$

i) $\int \frac{x}{x^2+9}\,dx$ j) $\int \frac{1}{x^2+9}\,dx$ k) $\int \frac{1}{(x+9)^2}\,dx$ l) $\int \frac{x^2}{x^2+9}\,dx$

m) $\int x^3\sqrt{1-x^4}\,dx$ n) $\int \frac{x^3}{\sqrt{1-x^4}}\,dx$ o) $\int \frac{3x}{\sqrt{1-x^4}}\,dx$ p) $\int \frac{e^x}{1+e^{2x}}\,dx$

q) $\int \frac{\ln x}{x}\,dx$ r) $\int \frac{5}{x\ln^3 x}\,dx$ s) $\int \frac{1}{x\ln x}\,dx$ t) $\int \frac{e^x}{1+e^x}\,dx$

u) $\int \operatorname{sen}^3 x\cos^5 x\,dx$ v) $\int \frac{1}{\sec x-\cos x}\,dx$ w) $\int \frac{1}{\sqrt{x-x^2}}\,dx$ x) $\int \frac{1}{1+e^x}\,dx$