Tabelas de Derivadas e de Primitivas

Tabela de Derivadas	
f	f'
$k,\ \mathsf{c}/\ k \in \mathbb{R}$	0
$u+v$	$u'+v'$
$ku,\ \mathsf{c}/\ k \in \mathbb{R}$	ku'
uv	$u'v+uv'$
$\frac{u}{v}$	$\frac{u'v-uv'}{v^2}$
$u^\alpha,\ \mathsf{c}/\ \alpha \in \mathbb{R}$	$\alpha u' u^{\alpha-1}$
e^u	$u'e^u$
$\ln u$	$\frac{u'}{u}$
$a^u,\ \mathsf{c}/\ a \in \mathbb{R}^+$	$u'a^u \ln a$
$\log_a u,\ \mathsf{c}/\ a \in \mathbb{R}^+\backslash\{1\}$	$\frac{u'}{u \ln a}$
$\operatorname{sen} u$	$u' \cos u$
$\cos u$	$-u' \operatorname{sen} u$
$\operatorname{tg} u$	$u' \sec^2 u$
$\operatorname{cotg} u$	$-u' \operatorname{cosec}^2 u$
$\sec u$	$u' \sec u \operatorname{tg} u$
$\operatorname{cosec} u$	$-u' \operatorname{cosec} u \operatorname{cotg} u$
$\operatorname{arcsen} u$	$\frac{u'}{\sqrt{1-u^2}}$
$\arccos u$	$-\frac{u'}{\sqrt{1-u^2}}$
$\operatorname{arctg} u$	$\frac{u'}{1+u^2}$
$\operatorname{arccotg} u$	$-\frac{u'}{1+u^2}$

Tabela de Primitivas	
f	Pf
$k,\ \mathsf{c}/\ k \in \mathbb{R}$	$kx+C$
$u+v$	$Pu+Pv$
$ku,\ \mathsf{c}/\ k \in \mathbb{R}$	kPu
$u^\alpha u',\ \alpha \in \mathbb{R}\backslash\{-1\}$	$\frac{u^{\alpha+1}}{\alpha+1}+C$
$u'e^u$	e^u+C
$\frac{u'}{u}$	$\ln\lvert u\rvert+C$
$u'a^u,\ \mathsf{c}/\ \mathbb{R}^+\backslash\{1\}$	$\frac{a^u}{\ln a}+C$
$u' \operatorname{sen} u$	$-\cos u+C$
$u' \cos u$	$\operatorname{sen} u+C$
$u' \operatorname{tg} u$	$-\ln\lvert\cos u\rvert+C$
$u' \operatorname{cotg} u$	$\ln\lvert\operatorname{sen} u\rvert+C$
$u' \sec^2 u$	$\operatorname{tg} u+C$
$u' \operatorname{cosec}^2 u$	$-\operatorname{cotg} u+C$
$\frac{u'}{\sqrt{1-u^2}}$	$\operatorname{arcsen} u+C$
$\frac{u'}{1+u^2}$	$\operatorname{arctg} u+C$

com C uma constante real.