Algumas fórmulas de derivação

função de x	$\frac{\mathbf{d}}{\mathbf{dx}}$
$m\,u(x),\ \ m \in \mathbb{R}$	$m\,u'(x)$
$u(x)^n,\ \ n \in \mathbb{R}$	$n\,u(x)^{n-1}\,u'(x)$
$\ln_a \lvert u(x)\rvert,\ \ a \in \mathbb{R}^+ \setminus \{1\}$	$\frac{u'(x)}{u(x)\ln a}$
$a^{u(x)},\ \ a \in \mathbb{R}^+$	$a^{u(x)}u'(x)\ln a$
$\sin u(x)$	$\cos u(x)\,u'(x)$
$\cos u(x)$	$-\sin u(x)\,u'(x)$
$\tan u(x)$	$\sec^2 u(x)\,u'(x)$
$\operatorname{cotan} u(x)$	$-\csc^2 u(x)\,u'(x)$
$\sec u(x)$	$\tan u(x)\ \sec u(x)\,u'(x)$
$\csc u(x)$	$-\operatorname{cotan} u(x)\ \csc u(x)\,u'(x)$
$\sinh u(x)$	$\cosh u(x)\,u'(x)$
$\cosh u(x)$	$\sinh u(x)\,u'(x)$
$\operatorname{arcsin} u(x)$	$\frac{u'(x)}{\sqrt{1-u(x)^2}}$
$\operatorname{arccos} u(x)$	$-\frac{u'(x)}{\sqrt{1-u(x)^2}}$
$\operatorname{arctan} u(x)$	$\frac{u'(x)}{1+u(x)^2}$
$\operatorname{arccot} u(x)$	$-\frac{u'(x)}{1+u(x)^2}$

Algumas fórmulas trigonométricas

$\sec u = \frac{1}{\cos u}$	$\csc u = \frac{1}{\sin u}$
$\cot u = \frac{\cos u}{\sin u}$	
$\cos^2 u = \frac{1+\cos(2u)}{2}$	$\sin^2 u = \frac{1-\cos(2u)}{2}$
$1+\tan^2 u = \sec^2 u$	$1+\operatorname{cotan}^2 u = \csc^2 u$
$\cos^2(\arcsin u) = 1-u^2$	$\sin^2(\arccos u) = 1-u^2$

Algumas fórmulas hiperbólicas

$\sinh u = \frac{e^u - e^{-u}}{2}$	$\cosh u = \frac{e^u + e^{-u}}{2}$
$\cosh^2 u - \sinh^2 u = 1$	