

Derivadas de Funções Inversas

DERIVADAS DE FUNÇÕES ELEMENTARES

$f(x)$	$f'(x)$
x^a	$a x^{a-1}$ $a \in \mathbb{R}$
$\sin x$	$\cos x$
$\cos x$	$-\sin x$
$\tan x$	$\frac{1}{\cos^2 x}$
$\sinh x$	$\cosh x$
$\cosh x$	$\sinh x$
$\tanh x$	$\frac{1}{\cosh^2 x}$
e^x	e^x

DERIVADAS DAS FUNÇÕES INVERSAS	
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$f^{-1}(x)$	$[f^{-1}(x)]'$
$x^{\frac{1}{a}}$	$\frac{1}{a} x^{\frac{1}{a}-1}$ $a \in \mathbb{R}$
$\sin^{-1} x$	$\frac{1}{\sqrt{1-x^2}}$
$\cos^{-1} x$	$-\frac{1}{\sqrt{1-x^2}}$
$\tan^{-1} x$	$\frac{1}{1+x^2}$
$\sinh^{-1} x$	$\frac{1}{\sqrt{x^2+1}}$
$\cosh^{-1} x$	$\frac{1}{\sqrt{x^2-1}}$
$\tanh^{-1} x$	$\frac{1}{1-x^2}$
$\ln x$	$\frac{1}{x}$