

function	derivative
$x^n$	$nx^{n-1}$
$\sin x$	$\cos x$
$e^x$	$e^x$
$\ln x$	$\frac{1}{x}$
$\ln(1+x)$	$\frac{1}{1+x}$
$\sin^{-1} x$	$\frac{1}{\sqrt{1-x^2}}$
$\tan^{-1} x$	$\frac{1}{1+x^2}$
$\tan x$	$\sec^2 x$
$\sec x$	$\sin x \cos^{-2} x = \tan x \sec x$
$\csc x$	$\cot x \csc x$
$\ln  \sin x $	$\cot x$
$\ln  \sec x + \tan x $	$\sec x$

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