

Resources

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Search**Table of Derivatives**(Math | [Calculus](#) | [Derivatives](#) | [Table Of](#))**Power of x.**

$\frac{d}{dx} c = 0$	$\frac{d}{dx} x = 1$	$\frac{d}{dx} x^n = n x^{(n-1)}$ Proof
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Exponential / Logarithmic

$\frac{d}{dx} e^x = e^x$ Proof	$\frac{d}{dx} b^x = b^x \ln(b)$ Proof	$\frac{d}{dx} \ln(x) = 1/x$ Proof
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Trigonometric

$\frac{d}{dx} \sin x = \cos x$ Proof	$\frac{d}{dx} \csc x = -\csc x \cot x$ Proof
$\frac{d}{dx} \cos x = -\sin x$ Proof	$\frac{d}{dx} \sec x = \sec x \tan x$ Proof
$\frac{d}{dx} \tan x = \sec^2 x$ Proof	$\frac{d}{dx} \cot x = -\csc^2 x$ Proof

Inverse Trigonometric

$\frac{d}{dx} \arcsin x = \frac{1}{\sqrt{1-x^2}}$	$\frac{d}{dx} \operatorname{arccsc} x = \frac{-1}{ x \sqrt{x^2-1}}$
$\frac{d}{dx} \arccos x = \frac{-1}{\sqrt{1-x^2}}$	$\frac{d}{dx} \operatorname{arcsec} x = \frac{1}{ x \sqrt{x^2-1}}$
$\frac{d}{dx} \arctan x = \frac{1}{1+x^2}$	$\frac{d}{dx} \operatorname{arccot} x = \frac{-1}{1+x^2}$

Hyperbolic

$\frac{d}{dx} \sinh x = \cosh x$ Proof	$\frac{d}{dx} \operatorname{csch} x = -\coth x \operatorname{csch} x$ Proof
$\frac{d}{dx} \cosh x = \sinh x$ Proof	$\frac{d}{dx} \operatorname{sech} x = -\tanh x \operatorname{sech} x$ Proof
$\frac{d}{dx} \tanh x = 1 - \tanh^2 x$ Proof	$\frac{d}{dx} \coth x = 1 - \coth^2 x$ Proof

Those with hyperlinks have proofs.

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