

A few derivatives

$$\frac{d}{dx} [\sec x] = \sec x \tan x$$

$$\frac{d}{dx} [\cot x] = -\csc^2 x$$

$$\frac{d}{dx} [\csc x] = -\csc x \cot x$$

$$\frac{d}{dx} [\sin^{-1} x] = \frac{1}{\sqrt{1-x^2}}$$

$$\frac{d}{dx} [\cos^{-1} x] = -\frac{1}{\sqrt{1-x^2}}$$

$$\frac{d}{dx} [\tan^{-1} x] = \frac{1}{1+x^2}$$

$$\frac{d}{dx} [\sec^{-1} x] = \frac{1}{|x|\sqrt{x^2-1}}$$

$$\frac{d}{dx} [\csc^{-1} x] = -\frac{1}{|x|\sqrt{x^2-1}}$$

$$\frac{d}{dx} [\cot^{-1} x] = -\frac{1}{1+x^2}$$

$$\frac{d}{dx} [b^x] = (\ln b)b^x$$

$$\frac{d}{dx} [\log_b x] = \frac{1}{(\ln b)x}$$

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