

$$\frac{d}{dx} \sin^{-1} x = \frac{1}{\sqrt{1 - (x)^2}}$$

$$\frac{d}{dx} \cos^{-1} x = \frac{-1}{\sqrt{1 - (x)^2}}$$

$$\frac{d}{dx} \tan^{-1} x = \frac{1}{1 + (x)^2}$$

$$\frac{d}{dx} \cot^{-1} x = \frac{-1}{1 + (x)^2}$$

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

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