

$$\frac{dy}{dx} = \frac{d}{dx} \Biggl(\sqrt{\frac{1-x^2}{1+x^2}} \Biggr)$$

$$\Rightarrow \frac{\mathrm{d}y}{\mathrm{d}x} = \frac{\mathrm{d}}{\mathrm{d}x} \left[\left(\frac{1 - x^2}{1 + x^2} \right)^{\frac{1}{2}} \right]$$

We know $\frac{d}{dx}(x^n) = nx^{n-1}$

Now by using chain rule

$$\Rightarrow \frac{dy}{dx} = \frac{1}{2} \left(\frac{1-x^2}{1+x^2} \right)^{\frac{1}{2}-1} \frac{d}{dx} \left(\frac{1-x^2}{1+x^2} \right)$$

$$\Rightarrow \frac{dy}{dx} = \frac{1}{2} \left(\frac{1 - x^2}{1 + x^2} \right)^{-\frac{1}{2}} \frac{d}{dx} \left(\frac{1 - x^2}{1 + x^2} \right)$$

We know that $\left(\frac{u}{v}\right)' = \frac{vu' - uv'}{v^2}$ (quotient rule)

$$\Rightarrow \frac{dy}{dx} = \frac{1}{2} \left(\frac{1-x^2}{1+x^2} \right)^{-\frac{1}{2}} \left[\frac{(1+x^2)\frac{d}{dx}(1-x^2) - (1-x^2)\frac{d}{dx}(1+x^2)}{(1+x^2)^2} \right]$$

$$\Rightarrow \frac{dy}{dx}$$

$$=\frac{1}{2}\bigg(\frac{1-x^2}{1+x^2}\bigg)^{-\frac{1}{2}}\Bigg[\frac{(1+x^2)\bigg(\frac{d}{dx}(1)-\frac{d}{dx}(x^2)\bigg)-(1-x^2)\bigg(\frac{d}{dx}(1)+\frac{d}{dx}(x^2)\bigg)}{(1+x^2)^2}\Bigg]$$

However, $\frac{d}{dx}(x^2) = 2x$ and derivative of a constant is 0.

$$\Rightarrow \frac{\mathrm{d}y}{\mathrm{d}x} = \frac{1}{2} \left(\frac{1 - x^2}{1 + x^2} \right)^{-\frac{1}{2}} \left[\frac{(1 + x^2)(0 - 2x) - (1 - x^2)(0 + 2x)}{(1 + x^2)^2} \right]$$

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