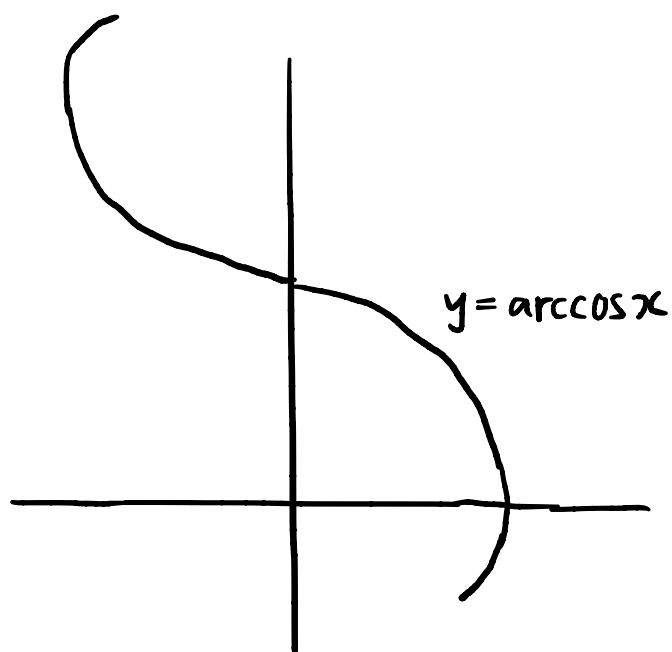
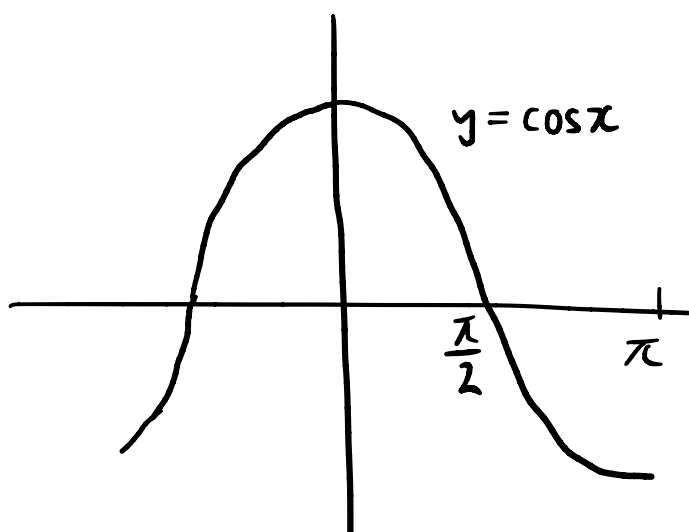


Define the function for inverse cosine.

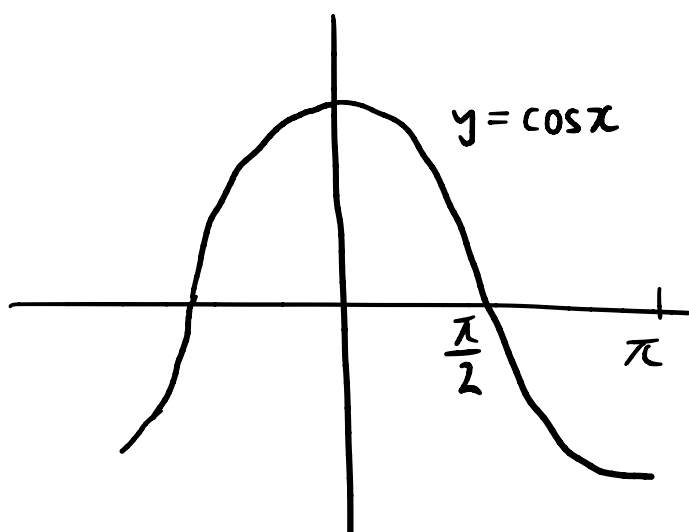
Find its Derivative.



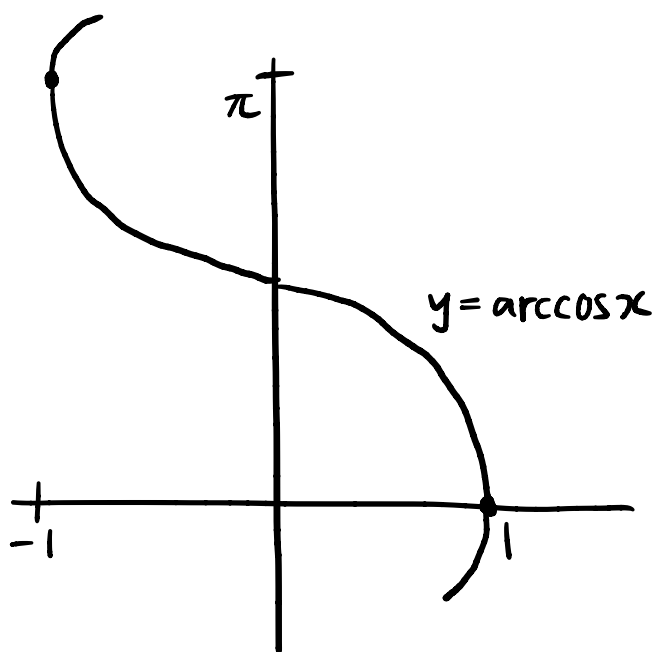
Define the function for inverse cosine.

Find its Derivative.

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$$\arccos x : [-1, 1] \rightarrow [\pi, 0]$$



$$y = \arccos x$$

$$\cos y = x$$

$$\Rightarrow \frac{d}{dx} \cos y = \frac{d}{dx} x$$

$$-\sin y \frac{dy}{dx} = 1$$

$$\frac{dy}{dx} = -\frac{1}{\sin y}$$

$$= -\frac{1}{\sqrt{1-x^2}}$$

