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Inverse Trigonometric Functions Graphs

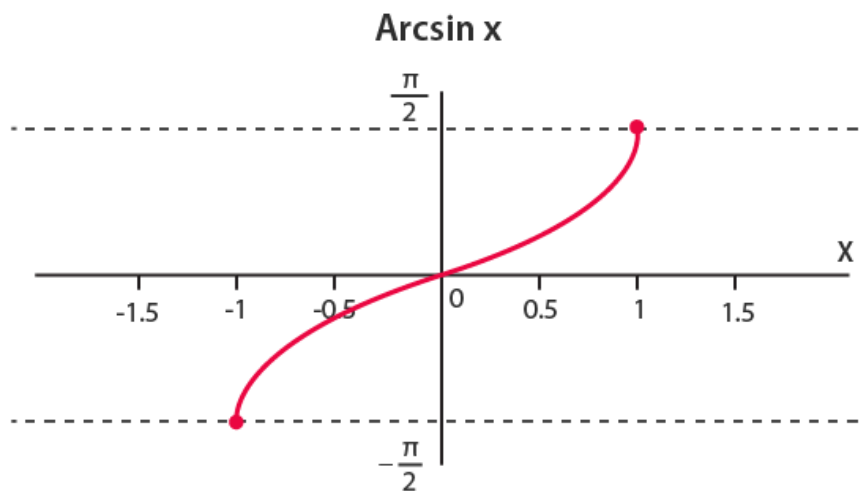
There are particularly six inverse trig functions for each **trigonometry ratio**. The inverse of six important trigonometric functions are:

- Arcsine
- Arccosine
- Arctangent
- Arccotangent
- Arcsecant
- Arccosecant

Let us discuss all the six important types of inverse trigonometric functions along with its definition, formulas, graphs, properties and solved examples.

Arcsine Function

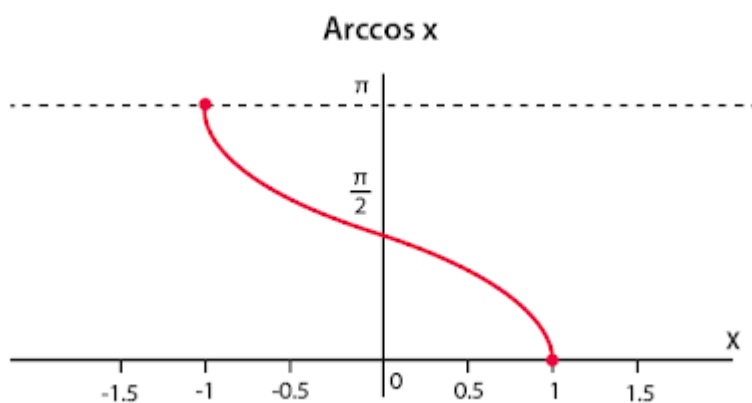
Arcsine function is an inverse of the sine function denoted by $\sin^{-1}x$. It is represented in the graph as shown below:



Domain	$-1 \leq x \leq 1$
Range	$-\pi/2 \leq y \leq \pi/2$

Arccosine Function

Arccosine function is the inverse of the cosine function denoted by $\cos^{-1}x$. It is represented in the graph as shown below:



Therefore, the inverse of cos function can be expressed as; $y = \cos^{-1}x$ (**arccosine x**)

Domain & Range of arcsine function:

Domain	$-1 \leq x \leq 1$
Range	$0 \leq y \leq \pi$