

INVERSE TRIGONOMETRIC FUNCTIONS AND TRIGONOMETRIC EQUATIONS

The range of each inverse function is given as follows

$$-\frac{\pi}{2} \leq \sin^{-1} x \text{ or } \arcsin x \leq \frac{\pi}{2} \quad \& \quad 0 \leq \cos^{-1} x \text{ or } \arccos x \leq \pi$$

$$-\frac{\pi}{2} < \tan^{-1} x \text{ or } \arctan x < \pi/2 \quad \& \quad 0 < \cot^{-1} x \text{ or } \operatorname{arccot} x < \pi$$

$$0 < \sec^{-1} x \text{ or } \operatorname{arcsec} x < \pi \quad \& \quad \sec^{-1} x \neq \frac{\pi}{2}$$

$$-\frac{\pi}{2} < \operatorname{cosec}^{-1} x \text{ or } \operatorname{arccosec} x < \frac{\pi}{2} \quad \& \quad \operatorname{cosec}^{-1} x \neq 0$$

- The range of each trigonometric function become the Domain of inverse trigonometric function.
- The last three inverse function rarely used. The inverse trigonometric functions are used to represent angles which cannot be expressed in any other way without the help of tables or calculator.
- Each inverse trigonometric function represents an angle.

Inverse Trigonometric Functions Some formulae:

#	Formulae
1.	$\tan^{-1} x - \tan^{-1} y = \tan^{-1} \left(\frac{x-y}{1+xy} \right)$
2.	$\tan^{-1} x + \tan^{-1} y = \tan^{-1} \left(\frac{x+y}{1-xy} \right)$
3.	$\sin^{-1} x + \sin^{-1} y = \sin^{-1} [x\sqrt{1-y^2} + \sqrt{1-x^2}]$
4.	$\sin^{-1} x - \sin^{-1} y = \sin^{-1} [x\sqrt{1-y^2} - y\sqrt{1-x^2}]$
5.	$\cos^{-1} x + \cos^{-1} y = \cos^{-1} [xy - \sqrt{(1-x^2)(1-y^2)}]$
6.	$\cos^{-1} x - \cos^{-1} y = \cos^{-1} [xy + \sqrt{(1-x^2)(1-y^2)}]$
7.	$\sin^{-1}(x) + \sin^{-1}(-x) = 0$
8.	$\operatorname{cosec}^{-1}(x) + \operatorname{cosec}^{-1}(-x) = 0$
9.	$\cot^{-1}(x) + \cot^{-1}(-x) = \pi$
10.	$\sec^{-1}(x) + \sec^{-1}(-x) = \pi$
11.	$\tan^{-1}(x) + \tan^{-1}(-x) = 0$
12.	$\cot^{-1}(x) + \cot^{-1}(-x) = 0$
13.	$\sin^{-1}(x) + \cos^{-1}(x) = \frac{\pi}{2}$
14.	$\sec^{-1}(x) + \operatorname{cosec}^{-1}(x) = \frac{\pi}{2}$
15.	$\tan^{-1}(x) + \cot^{-1}(x) = \frac{\pi}{2}$

Test Preparation Mathematics Workshop By

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