MATHS 1

# INVERSE TRIGONOMETRIC FUNCTIONS AND TRIGONOMETRIC EQUATIONS

The range of each inverse function is given as follows  $0 \le \cos^{-1} x \operatorname{or} \operatorname{arc} \cos x \le \pi$  $\frac{-\pi}{2} \le \sin^{-1} x \text{ or arcs in } x \le \frac{\pi}{2}$ 0 < cot -1 x or arc cot x < n  $\frac{-\pi}{2} < \tan^{-1} x \operatorname{orarctan} x < \pi/2$ 

 $0 < \sec^{-1} x$  or are see  $x < \pi$ 

= x < cos cc "x or arc cos cc x < 3

The range of each trigonometric function become the Domain of inverse trigonometric function

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The

If si

The last three inverse function rarely used. The inverse trigonometric functions are used trigonometric functions are used the last three inverse function rarely used. The inverse trigonometric functions are used to last three inverse functio

Each inverse trigonometric function represents an angle.

### Inverse Trigonometric Functions

Some formulae.

# /	Formulae
by	tan x - tan y tan 1 x - y 1 + xy
2.	$\tan^2 x + \tan^{-1} y = \tan^2 \left(\frac{x+y}{1-xy}\right)$
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.	$\cos^{-1} x - \cos^{-1} y = \cos^{-1} [xy + \sqrt{(1 - x^2)/(1 - x^2)}]$
7.	$\sin^{-1}(x) + \sin^{-1}(-x) = 0$
8.0	004 00"(x)+cos cc"(-x)=0
9	COR (x) + cos (-x) x -
10.	sec (x)+sec (-x) + π
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.	$\sec^{-1}(x) + \cos ec^{-1}(x) = \frac{\pi}{2}$
15.	$\tan^{-1}(x) + \cot^{-1}(x) = \frac{\pi}{2}$

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**R Bogdan** 

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