

# **Class 11 Maths Solutions Trigonometric Functions Pdf Download**

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Inverse Trigonometric Functions - Trigonometric Equations This Handout Defines The Inverse Of The Sine, Cosine And Tangent Functions. It Then Shows How These Inverse Functions Can Be Used To Solve Trigonometric Equations.

## 1 Inverse Trigonometric Functions

### 1.1 Quick Review

It is assumed that the student is familiar with the concept of inverse trigonometric functions. Inverse trigonometric functions are defined as follows:

$\arcsin(x)$  or  $\sin^{-1}(x)$  is the angle  $y$  such that  $\sin(y) = x$  and  $-\frac{\pi}{2} \leq y \leq \frac{\pi}{2}$ .

$\arccos(x)$  or  $\cos^{-1}(x)$  is the angle  $y$  such that  $\cos(y) = x$  and  $0 \leq y \leq \pi$ .

$\arctan(x)$  or  $\tan^{-1}(x)$  is the angle  $y$  such that  $\tan(y) = x$  and  $-\frac{\pi}{2} < y < \frac{\pi}{2}$ .

$\operatorname{arccot}(x)$  or  $\cot^{-1}(x)$  is the angle  $y$  such that  $\cot(y) = x$  and  $0 < y < \pi$ .

$\operatorname{arcsec}(x)$  or  $\sec^{-1}(x)$  is the angle  $y$  such that  $\sec(y) = x$  and  $0 \leq y < \frac{\pi}{2}$  or  $\frac{3\pi}{2} < y \leq \pi$ .

$\operatorname{arccsc}(x)$  or  $\csc^{-1}(x)$  is the angle  $y$  such that  $\csc(y) = x$  and  $-\frac{\pi}{2} < y < \frac{\pi}{2}$ .

Now we will define and sketch an inverse for the other trigonometric functions.

Mar 10th, 2024 Maths Class 11 Chapter 3. Trigonometric Functions - NCERT Help

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Trigonometric Ratios Of Some

Standard Angles Trigonometric Ratios Of Some Special Angles Trigonometric Ratios Of Allied Angles Two Angles Are Said To Be Allied When Their Sum Or Difference Is Either Zero Or A Multiple Of  $90^\circ$ . May 7th, 2024.

Plan 10: Trigonometric Functions - Project Maths2.3 Trigonometry Graph The Trigonometric Functions Sine, Cosine, Tangent. Graph Trigonometric Functions Of Type  $\text{Asin } N\theta$ ,  $\text{Acos } N\theta$  For  $A, N \in \mathbb{N}$ . Resources Required Compasses, Protractors, Clear Rulers, Pencils, Formulae And Tables Booklet, Geogebra, Autograph, Perspex Model Of Unit Circle (last 3 Desirable But Not Essential) Note Jan 2th, 2024

HS: FUNCTIONS- TRIGONOMETRIC FUNCTIONSExtending The Domain Of Trigonometric Functions Using The Unit Circle Because This Is The First Time Many Students Will Be Working With A Unit Circle So Providing That Visual At The Very Beginning And Explaining Feb 1th, 2024

4.7 Trigonometric Integrals And Trigonometric SubstitutionWe Then Use The Substitution  $U = \cos x \Rightarrow du = -\sin x dx$  to Get  $\int \sin^5 x \cos^2 x dx = \int U^2 (2u^4 + U^6) du = \frac{2}{5} U^5 + \frac{1}{7} U^7 + C = \frac{2}{5} \cos^5 x + \frac{1}{7} \cos^7 x + C$  Example 310 Find  $\int \sin^2 x dx$  This Is The Case When The Powers Of Sine And Cosine Are Even (the Power Of Cosine Being 0). We Use Mar 10th, 2024.

Q= 0.4 TRIGONOMETRIC AND INVERSE TRIGONOMETRIC ...2 R T 2 1 0 1 -I 0

SECTION 0.4 1 Trigonometric And Inverse Trigonometric Functions 35 Angle In

Degrees  $0^\circ$   $30^\circ$   $45^\circ$   $60^\circ$   $90^\circ$   $135^\circ$   $180^\circ$   $270^\circ$   $360^\circ$  1 Angle In Radians 0 G 3n M 37t  
2g 6 4 3 2 4 2 THEOREM 4.1 The Functions  $F(0) =$  Apr 1th, 2024C- Class, CL- Class,  
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Progress. Visual References Including Charts, Graphs, Diagrams, Instructive Illustrations, Jan 8th, 2024  
CHAPTER Solutions Key 13 Trigonometric Functions  
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PAGE 925 1. D 2. C 3. A 4. E 5.  $\frac{4}{5}$  6.  $\frac{3}{4}$  7.  $\frac{5}{3}$  8.  $\frac{3}{5}$  9. Obtuse 10. Right 11. Acute 12. 27 ... Apr 6th, 2024.

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