

22

Inverse Circular Functions

Topic 1 Domain and Range

Objective Question I (Only one correct option)

1. The number of real solutions of $\tan^{-1} \sqrt{x(x-1)} = \sin^{-1} \sqrt{x^2 - x - 1} - \frac{\pi}{2}$ is (1999, 2M)
- (a) zero (b) one (c) two (d) infinite

Fill in the Blank

2. The greater of the two angles $A = 2 \tan^{-1} (2\sqrt{2} - 1)$ and $B = 3 \sin^{-1} \frac{1}{2} - \sin^{-1} \frac{3}{5}$ is (1989, 2M)

Topic 2 Properties of Inverse Functions

Objective Questions II

(One or more than one correct option)

1. Let $f(x) = \log_2(\sin x)$, $0 < x < \pi$ and $g(x) = \sin^{-1}(e^{-x})$, $0 < x < \pi$. If a is a positive real number such that $a = (f \circ g)(\frac{\pi}{2})$ and $b = (g \circ f)(\frac{\pi}{2})$, then (2019 Main, 10 April 10)
- (a) $a > b$ (b) $a < b$ (c) $a = b$ (d) $a > b = a < 0$
2. The value of $\cot^{-1} \cot^{-1} 1 + \cot^{-1} 2^p$ is (2019 Main, 10 Jan 10)
- (a) $\frac{23}{22}$ (b) $\frac{21}{19}$ (c) $\frac{19}{21}$ (d) $\frac{22}{23}$
3. If $\cos^{-1} \frac{2}{3x} = \cos^{-1} \frac{3}{4x} - \frac{\pi}{2}$, then x is equal to (2019 Main, 9 Jan 10)
- (a) $\frac{\sqrt{145}}{10}$ (b) $\frac{\sqrt{145}}{12}$ (c) $\frac{\sqrt{145}}{11}$ (d) $\frac{\sqrt{145}}{13}$

4. If $3 \sin^{-1} \frac{6}{11}$ and $\cos^{-1} \frac{4}{9}$, where the inverse trigonometric functions take only the principal values, then the correct option(s) is/are (2015 Adv.)
- (a) $\cos^{-1} 0$ (b) $\sin^{-1} 0$ (c) $\cos^{-1} 1$ (d) $\cos^{-1} 0$
5. If $0 < x < 1$, then $\sqrt{1-x^2} [x \cos(\cot^{-1} x) + \sin(\cot^{-1} x)]^{2022}$ is equal to (2008, 3M)
- (a) $\frac{x}{\sqrt{1-x^2}}$ (b) x (c) $x\sqrt{1-x^2}$ (d) $\sqrt{1-x^2}$
6. The value of x for which $\sin[\cot^{-1}(1-x)] = \cos(\tan^{-1} x)$ is (2004, 1M)
- (a) $\frac{1}{2}$ (b) 1 (c) 0 (d) $\frac{1}{\sqrt{2}}$
7. If $\sin^{-1} x = \frac{x^2}{2} - \frac{x^2}{4} - \dots$, $\cos^{-1} x^2 = \frac{x^2}{2} - \frac{x^2}{4} - \dots$, for $0 < |x| < \sqrt{2}$, then x equals (2001, 1M)
- (a) $1/2$ (b) 1 (c) $-1/2$ (d) -1

Inverse Of Circular Functions Unit Lesson 01

Theodore Lindquist



Inverse Of Circular Functions Unit Lesson 01:

Inverse Of Circular Functions Unit Lesson 01 Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Inverse Of Circular Functions Unit Lesson 01**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Inverse Of Circular Functions Unit Lesson 01

1. Understanding the eBook Inverse Of Circular Functions Unit Lesson 01
 - The Rise of Digital Reading Inverse Of Circular Functions Unit Lesson 01
 - Advantages of eBooks Over Traditional Books
2. Identifying Inverse Of Circular Functions Unit Lesson 01
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Inverse Of Circular Functions Unit Lesson 01
 - User-Friendly Interface
4. Exploring eBook Recommendations from Inverse Of Circular Functions Unit Lesson 01
 - Personalized Recommendations
 - Inverse Of Circular Functions Unit Lesson 01 User Reviews and Ratings
 - Inverse Of Circular Functions Unit Lesson 01 and Bestseller Lists

5. Accessing Inverse Of Circular Functions Unit Lesson 01 Free and Paid eBooks
 - Inverse Of Circular Functions Unit Lesson 01 Public Domain eBooks
 - Inverse Of Circular Functions Unit Lesson 01 eBook Subscription Services
 - Inverse Of Circular Functions Unit Lesson 01 Budget-Friendly Options
6. Navigating Inverse Of Circular Functions Unit Lesson 01 eBook Formats
 - ePub, PDF, MOBI, and More
 - Inverse Of Circular Functions Unit Lesson 01 Compatibility with Devices
 - Inverse Of Circular Functions Unit Lesson 01 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Inverse Of Circular Functions Unit Lesson 01
 - Highlighting and Note-Taking Inverse Of Circular Functions Unit Lesson 01
 - Interactive Elements Inverse Of Circular Functions Unit Lesson 01
8. Staying Engaged with Inverse Of Circular Functions Unit Lesson 01
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Inverse Of Circular Functions Unit Lesson 01
9. Balancing eBooks and Physical Books Inverse Of Circular Functions Unit Lesson 01
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Inverse Of Circular Functions Unit Lesson 01
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Inverse Of Circular Functions Unit Lesson 01
 - Setting Reading Goals Inverse Of Circular Functions Unit Lesson 01
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Inverse Of Circular Functions Unit Lesson 01
 - Fact-Checking eBook Content of Inverse Of Circular Functions Unit Lesson 01
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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