EXERCISE 4.4

1. Find the principal value of the following

(i) $\sin^{-1}\left(\frac{-1}{2}\right)$ **(ii)** $\tan^{-1}(-1)$

(iii) $\operatorname{cosec}^{-1}(2)$ **(iv)** $\sec^{-1}(-\sqrt{2})$

Solution :

(i) $\sin^{-1}\left(\frac{-1}{2}\right)$

Let $\sin^{-1}\left(\frac{-1}{2}\right) = y$ where $\frac{-\pi}{2} \leq y \leq \frac{\pi}{2}$

$\therefore \sin y = -\frac{1}{2} = \sin\left(\frac{-\pi}{6}\right)$

$\Rightarrow y = \frac{-\pi}{6}$

$\therefore$ The principal value of $\sin^{-1}\left(\frac{-1}{2}\right)$ is $\frac{-\pi}{6}$

(ii) $\tan^{-1}(-1)$

Let $\tan^{-1}(-1) = y$ where $\frac{-\pi}{2} \leq y \leq \frac{\pi}{2}$

$\Rightarrow \tan y = -1 = -\tan\left(\frac{\pi}{4}\right)$

$\Rightarrow y = \frac{-\pi}{4}$

$\therefore$ The principal value of $\tan^{-1}(-1)$ is $\frac{-\pi}{4}$

Inverse Of Trigonometric Functions Problem Solving Answers

LP Steffe

Inverse Of Trigonometric Functions Problem Solving Answers:

Problems And Solutions In Mathematical Olympiad (High School 1) Bin Xiong,Zhi-gang Feng,2022-04-07 The series is edited by the head coaches of China s IMO National Team Each volume catering to different grades is contributed by the senior coaches of the IMO National Team The Chinese edition has won the award of Top 50 Most Influential Educational Brands in China The series is created in line with the mathematics cognition and intellectual development levels of the students in the corresponding grades All hot mathematics topics of the competition are included in the volumes and are organized into chapters where concepts and methods are gradually introduced to equip the students with necessary knowledge until they can finally reach the competition level In each chapter well designed problems including those collected from real competitions are provided so that the students can apply the skills and strategies they have learned to solve these problems Detailed solutions are provided selectively As a feature of the series we also include some solutions generously offered by the members of Chinese national team and national training team *Precalculus: A Functional Approach to Graphing and Problem Solving* Karl Smith,2013 Precalculus A Functional Approach to Graphing and Problem Solving prepares students for the concepts and applications they will encounter in future calculus courses In far too many texts process is stressed over insight and understanding and students move on to calculus ill equipped to think conceptually about its essential ideas This text provides sound development of the important mathematical underpinnings of calculus stimulating problems and exercises and a well developed engaging pedagogy Students will leave with a clear understanding of what lies ahead in their future calculus courses Instructors will find that Smith s straightforward student friendly presentation provides exactly what they have been looking for in a text **Complete Solutions Guide for Precalculus, Third Edition, Larson/Hostetler** Dianna L. Zook,1993 Trigonometry Workbook For Dummies Mary Jane Sterling,2006-02-10 From angles to functions to identities solve trig equations with ease Got a grasp on the terms and concepts you need to know but get lost halfway through a problem or worse yet not know where to begin No fear this hands on guide focuses on helping you solve the many types of trigonometry equations you encounter in a focused step by step manner With just enough refresher explanations before each set of problems you ll sharpen your skills and improve your performance You ll see how to work with angles circles triangles graphs functions the laws of sines and cosines and more 100s of Problems Step by step answer sets clearly identify where you went wrong or right with a problem Get the inside scoop on graphing trig functions Know where to begin and how to solve the most common equations Use trig in practical applications with confidence

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