

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

Huangqi Zhang



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Complete Solutions Guide for Precalculus, Third Edition, Larson/Hostetler Dianna L. Zook,1993

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