

NCERT Solutions Class 11 Maths Chapter 3 Trigonometric Functions

Question 1:

Find the radian measures corresponding to the following degree measures:

- (i) 25° (ii) $-47^\circ 30'$ (iii) 240° (iv) 520°

Solution:

We know that $180^\circ = \pi$ radian

Therefore,

$$\begin{aligned} \text{(i)} \quad 25^\circ &= \frac{\pi}{180} \times 25 \text{ radian} \\ &= \frac{5\pi}{36} \text{ radian} \end{aligned}$$

$$\begin{aligned} \text{(ii)} \quad -47^\circ 30' &= -\left(47 \frac{1}{2}\right)^\circ = -\left(\frac{95}{2}\right)^\circ \\ &= -\left(\frac{95}{2}\right)^\circ = \frac{\pi}{180} \times -\left(\frac{95}{2}\right) \text{ radian} \\ &= -\frac{19\pi}{72} \text{ radian} \end{aligned}$$

$$\begin{aligned} \text{(iii)} \quad 240^\circ &= \frac{\pi}{180} \times 240 \text{ radian} \\ &= \frac{3\pi}{4} \text{ radian} \end{aligned}$$

$$\begin{aligned} \text{(iv)} \quad 520^\circ &= \frac{\pi}{180} \times 520 \text{ radian} \\ &= \frac{26\pi}{9} \text{ radian} \end{aligned}$$

Question 2:

Find the degree measures corresponding to the following radian measures $\left(\text{Use } \pi = \frac{22}{7}\right)$.

- (i) $\frac{11}{16}$ (ii) -4 (iii) $\frac{5\pi}{3}$ (iv) $\frac{7\pi}{6}$

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Ncert Help

Daniela Niemeyer



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Table of Contents Maths Class 11 Chapter 3 Trigonometric Functions Ncert Help

1. Understanding the eBook Maths Class 11 Chapter 3 Trigonometric Functions Ncert Help
 - The Rise of Digital Reading Maths Class 11 Chapter 3 Trigonometric Functions Ncert Help
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Class 11 Chapter 3 Trigonometric Functions Ncert Help
 - 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 Maths Class 11 Chapter 3 Trigonometric Functions Ncert Help
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Class 11 Chapter 3 Trigonometric Functions Ncert Help
 - Personalized Recommendations
 - Maths Class 11 Chapter 3 Trigonometric Functions Ncert Help User Reviews and Ratings
 - Maths Class 11 Chapter 3 Trigonometric Functions Ncert Help and Bestseller Lists
5. Accessing Maths Class 11 Chapter 3 Trigonometric Functions Ncert Help Free and Paid eBooks
 - Maths Class 11 Chapter 3 Trigonometric Functions Ncert Help Public Domain eBooks
 - Maths Class 11 Chapter 3 Trigonometric Functions Ncert Help eBook Subscription Services
 - Maths Class 11 Chapter 3 Trigonometric Functions Ncert Help Budget-Friendly Options

6. Navigating Maths Class 11 Chapter 3 Trigonometric Functions Ncert Help eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Class 11 Chapter 3 Trigonometric Functions Ncert Help Compatibility with Devices
 - Maths Class 11 Chapter 3 Trigonometric Functions Ncert Help Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Class 11 Chapter 3 Trigonometric Functions Ncert Help
 - Highlighting and Note-Taking Maths Class 11 Chapter 3 Trigonometric Functions Ncert Help
 - Interactive Elements Maths Class 11 Chapter 3 Trigonometric Functions Ncert Help
8. Staying Engaged with Maths Class 11 Chapter 3 Trigonometric Functions Ncert Help
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Class 11 Chapter 3 Trigonometric Functions Ncert Help
9. Balancing eBooks and Physical Books Maths Class 11 Chapter 3 Trigonometric Functions Ncert Help
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Class 11 Chapter 3 Trigonometric Functions Ncert Help
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Maths Class 11 Chapter 3 Trigonometric Functions Ncert Help
 - Setting Reading Goals Maths Class 11 Chapter 3 Trigonometric Functions Ncert Help
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Maths Class 11 Chapter 3 Trigonometric Functions Ncert Help
 - Fact-Checking eBook Content of Maths Class 11 Chapter 3 Trigonometric Functions Ncert Help
 - 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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