

## NCERT Solutions Class 11 Maths Chapter 3 Trigonometric Functions

### Question 1:

Find the radian measures corresponding to the following degree measures:

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

### 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)  $\frac{7\pi}{6}$

# Maths Class 11 Chapter 3 Trigonometric Functions

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**Xiaolong Qi**



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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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