

## Chapter 4

### Trigonometric Functions

#### Section 4.1

#### Check Point Exercises

1. The radian measure of a central angle is the length of the intercepted arc,  $s$ , divided by the circle's radius,  $r$ . The length of the intercepted arc is 42 feet:  $s = 42$  feet. The circle's radius is 12 feet:  $r = 12$  feet. Now use the formula for radian measure to find the radian measure of  $\theta$ .

$$\theta = \frac{s}{r} = \frac{42 \text{ feet}}{12 \text{ feet}} = 3.5$$

Thus, the radian measure of  $\theta$  is 3.5.

2. a.  $60^\circ = 60^\circ \cdot \frac{\pi \text{ radians}}{180^\circ} = \frac{60\pi}{180} \text{ radians}$   
 $= \frac{\pi}{3} \text{ radians}$

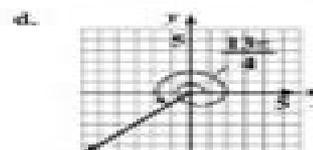
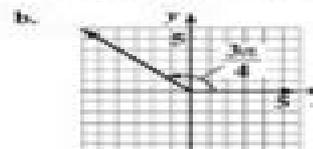
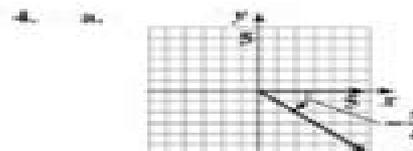
b.  $270^\circ = 270^\circ \cdot \frac{\pi \text{ radians}}{180^\circ} = \frac{270\pi}{180} \text{ radians}$   
 $= \frac{3\pi}{2} \text{ radians}$

c.  $-300^\circ = -300^\circ \cdot \frac{\pi \text{ radians}}{180^\circ} = -\frac{300\pi}{180} \text{ radians}$   
 $= -\frac{5\pi}{3} \text{ radians}$

3. a.  $\frac{\pi}{4} \text{ radians} = \frac{\pi \text{ radians}}{4} \cdot \frac{180^\circ}{\pi \text{ radians}}$   
 $= \frac{180^\circ}{4} = 45^\circ$

b.  $-\frac{4\pi}{3} \text{ radians} = -\frac{4\pi \text{ radians}}{3} \cdot \frac{180^\circ}{\pi}$   
 $= -\frac{4 \cdot 180^\circ}{3} = -240^\circ$

c.  $6 \text{ radians} = 6 \text{ radians} \cdot \frac{180^\circ}{\pi \text{ radians}}$   
 $= \frac{6 \cdot 180^\circ}{\pi} \approx 343.8^\circ$



5. a. For a  $400^\circ$  angle, subtract  $360^\circ$  to find a positive coterminal angle.  
 $400^\circ - 360^\circ = 40^\circ$

- b. For a  $-135^\circ$  angle, add  $360^\circ$  to find a positive coterminal angle.  
 $-135^\circ + 360^\circ = 225^\circ$

6. a.  $\frac{13\pi}{5} - 2\pi = \frac{13\pi}{5} - \frac{10\pi}{5} = \frac{3\pi}{5}$

b.  $-\frac{\pi}{15} + 2\pi = -\frac{\pi}{15} + \frac{30\pi}{15} = \frac{29\pi}{15}$

# Chapter 4 Trigonometric Functions Answers

**JL Elias**



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**Mathematical Monthly**, 1922 Includes section Recent publications  
 Cameron B. Douthitt, Joe A. McMillian, 1978  
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Notices of the American Mathematical Society American Mathematical Society, 1974 Contains articles of significant interest to mathematicians including reports on current mathematical research  
*Test Items, A Primer for Calculus, Fifth Edition, Leonard I. Holder* Charles Heuer, 1990  
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Trigonometry, a Calculator Approach Herman R. Hyatt, Laurence Small, 1982  
*Precalculus* Munem-Yizze, Mustafa A. Munem, 2000-08-25  
**Trigonometry** Leonard Irvin Holder, 1982  
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## **Table of Contents Chapter 4 Trigonometric Functions Answers**

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

6. Navigating Chapter 4 Trigonometric Functions Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Chapter 4 Trigonometric Functions Answers Compatibility with Devices
  - Chapter 4 Trigonometric Functions Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Chapter 4 Trigonometric Functions Answers
  - Highlighting and Note-Taking Chapter 4 Trigonometric Functions Answers
  - Interactive Elements Chapter 4 Trigonometric Functions Answers
8. Staying Engaged with Chapter 4 Trigonometric Functions Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chapter 4 Trigonometric Functions Answers
9. Balancing eBooks and Physical Books Chapter 4 Trigonometric Functions Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chapter 4 Trigonometric Functions Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Chapter 4 Trigonometric Functions Answers
  - Setting Reading Goals Chapter 4 Trigonometric Functions Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 4 Trigonometric Functions Answers
  - Fact-Checking eBook Content of Chapter 4 Trigonometric Functions Answers
  - 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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