

# Chapter 7 Test, Form 2C

1. Simplify  $\frac{\sin \theta}{\tan \theta}$ .

$$\frac{\sin \theta}{\frac{\sin \theta}{\cos \theta}} = \sin \theta \cdot \frac{\cos \theta}{\sin \theta}$$

1. cos θ

2. If  $\cos \theta = -\frac{4}{5}$  and  $90^\circ < \theta < 180^\circ$ , find  $\cot \theta$ .



2.  $-\frac{4}{3}$

3. Simplify  $\sec^2 \theta - \tan^2 \theta$ .

\* Identity:  $\sec^2 \theta = 1 + \tan^2 \theta$

so...  $\sec^2 \theta - \tan^2 \theta = 1$

3. 1

4. Simplify  $\frac{\sin^2 \theta + \cos^2 \theta}{\tan^2 \theta + 1}$ .

$$= \frac{1}{\sec^2 \theta} = \cos^2 \theta$$

4. cos<sup>2</sup> θ

5. If  $\tan x \cos x = \frac{1}{2}$ , find the value of  $\sin x$ .

$$\frac{\sin x}{\cos x} \cos x = \frac{1}{2}$$

5.  $\frac{1}{2}$

6. Use a sum or difference identity to find the exact value of  $\cos 15^\circ$ .

$$\cos(45^\circ - 30^\circ) = \cos 45^\circ \cos 30^\circ + \sin 45^\circ \sin 30^\circ$$

$$\left(\frac{\sqrt{2}}{2}\right)\left(\frac{\sqrt{3}}{2}\right) + \left(\frac{\sqrt{2}}{2}\right)\left(\frac{1}{2}\right)$$

6.  $\frac{\sqrt{6} + \sqrt{2}}{4}$

7. Find the value of  $\tan(\alpha + \beta)$  if  $\cos \alpha = \frac{5}{13}$ ,  $\sin \beta = \frac{3}{5}$ ,  $0^\circ < \alpha < 90^\circ$ , and  $0^\circ < \beta < 90^\circ$ .



$$\frac{\tan A + \tan B}{1 - \tan A \tan B} = \frac{\frac{12}{5} + \frac{3}{4}}{1 - \frac{12}{5}\left(\frac{3}{5}\right)} = \frac{\frac{63}{20}}{\frac{-16}{25}} = -\frac{63}{16}$$

7.  $-\frac{63}{16}$

8. Simplify  $\sin(\pi - \theta)$ .

$$\sin \pi \cos \theta - \cos \pi \sin \theta$$

$$(0) \cos \theta - (-1) \sin \theta = 0 + \sin \theta$$

8. sin θ

9. If  $\theta$  is an angle in the first quadrant and  $\cos \theta = \frac{1}{2}$ , find the exact value of  $\cos 2\theta$ .

$$\cos^2 \theta - \sin^2 \theta$$

$$\left(\frac{1}{2}\right)^2 - \left(\frac{\sqrt{3}}{2}\right)^2$$

9.  $-\frac{3}{4}$

10. If  $\cos \theta = \frac{3}{5}$  and  $0^\circ < \theta < 90^\circ$ , find the exact value of  $\sin 2\theta$ .

$$2 \sin \theta \cos \theta$$

$$2 \left(\frac{4}{5}\right) \left(\frac{3}{5}\right)$$

10.  $\frac{24}{25}$

11. If  $\cos \theta = -\frac{4}{5}$  and  $\theta$  has its terminal side in Quadrant II, find the exact value of  $\tan 2\theta$ .

$$\frac{2 \tan \theta}{1 - \tan^2 \theta} = \frac{2\left(-\frac{3}{4}\right)}{1 - \frac{9}{16}} = \frac{-\frac{3}{2}}{\frac{7}{16}} = -\frac{24}{7}$$

11.  $-\frac{24}{7}$

# Algebra 2 Chapter 7 Test C

**Richard N. Aufmann, Richard Nation**



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## **Table of Contents Algebra 2 Chapter 7 Test C**

1. Understanding the eBook Algebra 2 Chapter 7 Test C
  - The Rise of Digital Reading Algebra 2 Chapter 7 Test C
  - Advantages of eBooks Over Traditional Books
2. Identifying Algebra 2 Chapter 7 Test C
  - 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 Algebra 2 Chapter 7 Test C
  - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra 2 Chapter 7 Test C
  - Personalized Recommendations
  - Algebra 2 Chapter 7 Test C User Reviews and Ratings
  - Algebra 2 Chapter 7 Test C and Bestseller Lists
5. Accessing Algebra 2 Chapter 7 Test C Free and Paid eBooks

- Algebra 2 Chapter 7 Test C Public Domain eBooks
  - Algebra 2 Chapter 7 Test C eBook Subscription Services
  - Algebra 2 Chapter 7 Test C Budget-Friendly Options
6. Navigating Algebra 2 Chapter 7 Test C eBook Formats
- ePub, PDF, MOBI, and More
  - Algebra 2 Chapter 7 Test C Compatibility with Devices
  - Algebra 2 Chapter 7 Test C Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Algebra 2 Chapter 7 Test C
  - Highlighting and Note-Taking Algebra 2 Chapter 7 Test C
  - Interactive Elements Algebra 2 Chapter 7 Test C
8. Staying Engaged with Algebra 2 Chapter 7 Test C
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Algebra 2 Chapter 7 Test C
9. Balancing eBooks and Physical Books Algebra 2 Chapter 7 Test C
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Algebra 2 Chapter 7 Test C
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Algebra 2 Chapter 7 Test C
- Setting Reading Goals Algebra 2 Chapter 7 Test C
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Algebra 2 Chapter 7 Test C
- Fact-Checking eBook Content of Algebra 2 Chapter 7 Test C
  - 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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