

Sine and Cosine Ratios

What You'll Learn

- To use sine and cosine to determine side lengths in triangles.

... And Why

To use the sine ratio to estimate astronomical distances indirectly, as in Example 2.

Check Skills You'll Need

For each triangle, find (a) the length of the leg opposite $\angle A$ and (b) the length of the leg adjacent to $\angle A$.

- 1.
- 9°
- ; 12



- 2.



- 3.

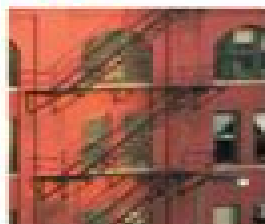


Go for Help Lesson 8-3

New Vocabulary • sine • cosine • identity

1

Using Sine and Cosine in Triangles



The tangent ratio, as you have seen, involves both legs of a right triangle. The sine and cosine ratios involve one leg and the hypotenuse.

$$\text{sine of } \angle A = \frac{\text{leg opposite } \angle A}{\text{hypotenuse}}$$

$$\text{cosine of } \angle A = \frac{\text{leg adjacent to } \angle A}{\text{hypotenuse}}$$

These equations can be abbreviated:

$$\sin A = \frac{\text{opposite}}{\text{hypotenuse}}$$

$$\cos A = \frac{\text{adjacent}}{\text{hypotenuse}}$$



Real-World Connection

For an angle of a given size, the sine and cosine ratios are constant, no matter where the angle is located.

EXAMPLE Writing Sine and Cosine Ratios

Use the triangle to write each ratio.

a. $\sin F$ $\sin F = \frac{\text{opposite}}{\text{hypotenuse}} = \frac{8}{17}$

b. $\cos F$ $\cos F = \frac{\text{adjacent}}{\text{hypotenuse}} = \frac{15}{17}$

c. $\sin G$ $\sin G = \frac{\text{opposite}}{\text{hypotenuse}} = \frac{15}{17}$

d. $\cos G$ $\cos G = \frac{\text{adjacent}}{\text{hypotenuse}} = \frac{8}{17}$



1a. $\sin X = \frac{64}{80}$; $\cos X = \frac{64}{80}$
 $\sin Y = \frac{64}{80}$; $\cos Y = \frac{64}{80}$



Quick Check

1. Write the sine and cosine ratios for $\angle X$ and $\angle Y$. **See right.**
 b. **Critical Thinking** When does $\sin X = \cos Y$? Explain.
 $\sin X = \cos Y$ when $\angle X$ and $\angle Y$ are complementary.

Differentiated Instruction Solutions for All Learners

Special Needs

Present the mnemonic device SOHCAHTOA for the definition of the three trigonometric ratios: Sine is Opposite over Hypotenuse; Cosine is Adjacent over Hypotenuse; Tangent is Opposite over Adjacent.

learning style: verbal

Below Level

Have students draw and measure right triangles to make a table of sine and cosine values for the angles in the set $\{10^\circ, 20^\circ, \dots, 80^\circ\}$.

learning style: visual

1. Plan

Objectives

- To use sine and cosine to determine side lengths in triangles.

Examples

- Writing Sine and Cosine Ratios
- Real-World Connection
- Using the Inverse of Cosine and Sine

Math Background

A unit circle has radius 1 and center (0,0) in the coordinate plane. For all real values of t , the point that is reached by traveling t radians from point (1,0) in a counterclockwise direction has coordinates $(\cos t, \sin t)$.

More Math Background: p. 414D

Lesson Planning and Resources

See p. 414E for a list of the resources that support this lesson.

Bell Ringer Practice

Check Skills You'll Need

For intervention, direct students to:

Writing Tangent Ratios

Lesson 8-3: Example 1
 Extra Skills, Word Problems, Proof Practice, Ch. 8

Reteaching 8 4 Sine And Cosine Ratios Answers

A. W. Binks



Reteaching 8 4 Sine And Cosine Ratios Answers:

Unveiling the Magic of Words: A Review of "**Reteaching 8 4 Sine And Cosine Ratios Answers**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Reteaching 8 4 Sine And Cosine Ratios Answers**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

<https://crm.avenza.com/results/publication/HomePages/Recipe%20For%20The%20Ultimate%20Pumpkin%20Pie.pdf>

Table of Contents Reteaching 8 4 Sine And Cosine Ratios Answers

1. Understanding the eBook Reteaching 8 4 Sine And Cosine Ratios Answers
 - The Rise of Digital Reading Reteaching 8 4 Sine And Cosine Ratios Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Reteaching 8 4 Sine And Cosine Ratios 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 Reteaching 8 4 Sine And Cosine Ratios Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Reteaching 8 4 Sine And Cosine Ratios Answers
 - Personalized Recommendations
 - Reteaching 8 4 Sine And Cosine Ratios Answers User Reviews and Ratings
 - Reteaching 8 4 Sine And Cosine Ratios Answers and Bestseller Lists

5. Accessing Reteaching 8 4 Sine And Cosine Ratios Answers Free and Paid eBooks
 - Reteaching 8 4 Sine And Cosine Ratios Answers Public Domain eBooks
 - Reteaching 8 4 Sine And Cosine Ratios Answers eBook Subscription Services
 - Reteaching 8 4 Sine And Cosine Ratios Answers Budget-Friendly Options
6. Navigating Reteaching 8 4 Sine And Cosine Ratios Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Reteaching 8 4 Sine And Cosine Ratios Answers Compatibility with Devices
 - Reteaching 8 4 Sine And Cosine Ratios Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Reteaching 8 4 Sine And Cosine Ratios Answers
 - Highlighting and Note-Taking Reteaching 8 4 Sine And Cosine Ratios Answers
 - Interactive Elements Reteaching 8 4 Sine And Cosine Ratios Answers
8. Staying Engaged with Reteaching 8 4 Sine And Cosine Ratios Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Reteaching 8 4 Sine And Cosine Ratios Answers
9. Balancing eBooks and Physical Books Reteaching 8 4 Sine And Cosine Ratios Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Reteaching 8 4 Sine And Cosine Ratios Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Reteaching 8 4 Sine And Cosine Ratios Answers
 - Setting Reading Goals Reteaching 8 4 Sine And Cosine Ratios Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Reteaching 8 4 Sine And Cosine Ratios Answers
 - Fact-Checking eBook Content of Reteaching 8 4 Sine And Cosine Ratios 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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recipe for linguine dough

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