

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.

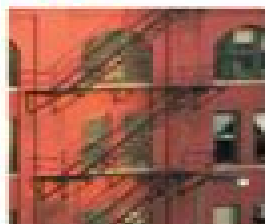


Go for Help Lesson 8-3

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

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