

# 12-1 Study Guide and Intervention

## Trigonometric Functions in Right Triangles

**Trigonometric Functions for Acute Angles** Trigonometry is the study of relationships among the angles and sides of a right triangle. A **trigonometric function** has a rule given by a **trigonometric ratio**, which is a ratio that compares the side lengths of a right triangle.

### Trigonometric Functions in Right Triangles



If  $\theta$  is the measure of an acute angle of a right triangle, *opp* is the measure of the leg opposite  $\theta$ , *adj* is the measure of the leg adjacent to  $\theta$ , and *hyp* is the measure of the hypotenuse, then the following are true.

$$\sin \theta = \frac{\text{opp}}{\text{hyp}}$$

$$\csc \theta = \frac{\text{hyp}}{\text{opp}}$$

$$\cos \theta = \frac{\text{adj}}{\text{hyp}}$$

$$\sec \theta = \frac{\text{hyp}}{\text{adj}}$$

$$\tan \theta = \frac{\text{opp}}{\text{adj}}$$

$$\cot \theta = \frac{\text{adj}}{\text{opp}}$$

**Example:** In a right triangle,  $\angle B$  is acute and  $\cos B = \frac{3}{7}$ . Find the value of  $\tan B$ .

**Step 1** Draw a right triangle and label one acute angle  $B$ . Label the adjacent side 3 and the hypotenuse 7.

**Step 2** Use the Pythagorean Theorem to find  $b$ .

$$a^2 + b^2 = c^2$$

$$3^2 + b^2 = 7^2$$

$$9 + b^2 = 49$$

$$b^2 = 40$$

$$b = \sqrt{40} \text{ or } 2\sqrt{10}$$

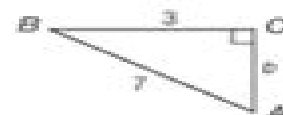
Pythagorean Theorem

$$a = 3 \text{ and } c = 7$$

Simplify.

Subtract 9 from each side.

Take the positive square root of each side.



**Step 3** Find  $\tan B$ .

$$\tan B = \frac{\text{opp}}{\text{adj}}$$

$$\tan B = \frac{2\sqrt{10}}{3}$$

Tangent function

Replace *opp* with  $2\sqrt{10}$  and *adj* with 3.

### Exercises

Find the values of the six trigonometric functions for angle  $\theta$ .

1.



2.



3.



In a right triangle,  $\angle A$  and  $\angle B$  are acute.

4. If  $\tan A = \frac{7}{12}$ , what is  $\cos A$ ?

5. If  $\cos A = \frac{5}{13}$ , what is  $\tan A$ ?

6. If  $\sin B = \frac{3}{8}$ , what is  $\tan B$ ?

# Answers Study Guide And Intervention Trigonometry

**Mike Sharples**



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**Algebra 2 Chapter 13 Resource Masters** McGraw-Hill Staff,2002-05      **Resources in education** ,1985-03

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Tanton,2015-08-10 This guide covers the story of trigonometry It is a swift overview but it is complete in the context of the content discussed in beginning and advanced high school courses The purpose of these notes is to supplement and put into perspective the material of any course on the subject you may have taken or are currently taking These notes will be tough going for those encountering trigonometry for the very first time      Practical Pedagogy Mike Sharples,2019-04-01 Practical Pedagogy expands the universe of teaching and learning It provides an accessible guide to new and emerging innovations in education with insights into how to become more effective as a teacher and learner New teachers will find a comprehensive introduction to innovative ways of teaching and learning Experienced educators will be surprised by the range of useful pedagogies such as translanguaging crossover learning teachback bricolage and rhizomatic learning Policy makers will gain evidence of how new teaching methods work in practice with resources for curriculum design and course development Drawing on material from the hugely influential Innovating Pedagogy series of reports this book is a compilation of the 40 most relevant pedagogies covering innovative ways to teach and learn how pedagogies are adopted in new ways for a digital age evidence on how and why different methods of teaching work including case studies set in classrooms informal settings and online learning spaces practical implications of the latest research into the science of learning combining psychology education social sciences and neuroscience Organised around six themes Personalization Connectivity Reflection Extension Embodiment and Scale Practical Pedagogy is a comprehensive source for teachers policy makers educational researchers and anyone interested in new ways to teach and learn      *The Executive Educator* ,1993      **El-Hi Textbooks in Print** ,1984      **Scientific and Technical Books and Serials in Print** ,1989      Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office Library of Congress. Copyright Office,1978

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