

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 θ is the measure of an acute angle of a right triangle, *opp* is the measure of the leg opposite θ , *adj* is the measure of the leg adjacent to θ , 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 .

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

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

$$9 + b^2 = 49$$

$$b^2 = 40$$

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

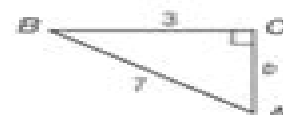
Pythagorean Theorem

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

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 θ .

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 $\tan B$?

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E Staff



Study Guide And Intervention Right Triangle Trigonometry:

Algebra 2 Chapter 13 Resource Masters McGraw-Hill Staff, 2002-05 Glencoe Algebra I, 2003 Trigonometry James 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 The Video Source Book David J. WEINER, 1990 Scientific American, 1918 **Quick Trigonometry Study Review Notes for Students** E Staff, Learn and review on the go Use Quick Review Geometry Trigonometry Study Notes to help you learn or brush up on the subject quickly You can use the review notes as a reference to understand the subject better and improve your grades Easy to remember facts to help you perform better **International Books in Print**, 1990 **Study Guide : Trigonometry** William R. Krickenberger, 1956 **The Essentials of Algebra & Trigonometry**, 1987-10-23 REA's Essentials provide quick and easy access to critical information in a variety of different fields ranging from the most basic to the most advanced As its name implies these concise comprehensive study guides summarize the essentials of the field covered Essentials are helpful when preparing for exams doing homework and will remain a lasting reference source for students teachers and professionals Algebra Trigonometry II includes logarithms sequences and series permutations combinations and probability vectors matrices determinants and systems of equations mathematical induction and the binomial theorems partial fractions complex numbers trigonometry trigonometric functions solving triangles inverse trigonometric functions and trigonometric equations and an introduction to analytic geometry *Schaum's Outline of Trigonometry, Sixth Edition* Robert E. Moyer, Frank Ayres, 2017-11-03 Tough Test Questions Missed Lectures Not Enough Time Textbook too Pricey Fortunately there's Schaum's This all in one package includes more than 600 fully solved problems examples and practice exercises to sharpen your problem solving skills Plus you will have access to 20 detailed videos featuring math instructors who explain how to solve the most commonly tested problems it's just like having your own virtual tutor You'll find everything you need to build confidence skills and knowledge for the highest score possible More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams Schaum's is the key to faster learning and higher grades in every subject Each Outline presents all the essential course information in an easy to follow topic by topic format Helpful tables and illustrations increase your understanding of the subject at hand Schaum's Outline of Trigonometry Sixth Edition features Updated content to match the latest curriculum Over 600 problems with step by step solutions An accessible outline format for quick and easy review Clear explanations for all linear algebra concepts Access to revised Schaums.com website with access to 20 problem solving videos and more **Trigonometry** David A. Kay, 1994 A comprehensive review guide to help you refresh your study This guide is particularly useful for midterms and final exams condensing a semester's worth of information into one concise

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