

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 .

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

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

$$9 + b^2 = 49$$

$$b^2 = 40$$

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

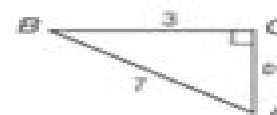
Pythagorean Theorem

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

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 $\tan B$?

Triangle Trigonometry Study Guide

James Tanton



Triangle Trigonometry Study Guide:

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 Trigonometry (Speedy Study Guides) Speedy Publishing, 2014-06-18 Trigonometry is the branch of science that studies triangles paying particularly close attention to the measurements between the triangle's points and the angles of the triangle's three corners Trigonometry is used for a variety of fields including tailoring landscaping and architecture One great reason for people studying trigonometry to have charts is that there are many different formulas used to determine angles and measurements Having a chart that showed different kinds of triangles and the formulas associated with them is quite handy *Digital SAT Study Guide Premium, 2024: 4 Practice Tests + Comprehensive Review + Online Practice* Brian W. Stewart, 2023-10-03 Always study with the most up to date prep Look for Digital SAT Study Guide Premium 2025 4 Practice Tests Comprehensive Review Online Practice ISBN 9781506292496 on sale July 2 2024 Publisher's Note Products purchased from third party sellers are not guaranteed by the publisher for quality authenticity or access to any online entities included with the product Barron's SAT Study Guide Premium, 2021-2022 (Reflects the 2021 Exam Update): 7 Practice Tests + Comprehensive Review + Online Practice Sharon Weiner Green, Ira K. Wolf, Brian W. Stewart, 2021-07-06 Completely updated to reflect the 2021 exam update Barron's SAT Study Guide includes everything you need to be prepared for exam day with comprehensive review and practice from experienced educators All the Review You Need to Be Prepared An expert overview of the SAT including test scoring methods and advice on college entrance requirements In depth subject review covering all sections of the test Reading Writing and Language and Mathematics Updated Writing and Language sections to reflect the removal of the optional essay Tips and strategies throughout from Barron's authors experienced educators and SAT tutors Practice with Confidence 7 full length practice tests 4 in the book and 2 online including 1 diagnostic test to assess your skills and target your studying Review chapters contain additional practice questions on each subject All practice questions include detailed answer explanations Interactive Online Practice 2 full length practice tests online with a timed test option to simulate exam experience Detailed answer explanations included with expert advice Automated scoring to check your learning progress Online vocabulary flashcards for additional practice to support reading writing and language **Study Guide and Solution Manual to Accompany Mathematical Ideas** Charles David Miller, 1994 **Student Study Guide to Accompany the Mathematical Palette** Ronald Staszko, 1997-11 **PSAT/NMSQT Study Guide, 2023: 4 Practice Tests + Comprehensive Review + Online Practice** Brian W. Stewart, 2022-06-07 Barron's PSAT NMSQT Study Guide Premium includes everything you need to be prepared for exam day with comprehensive review and practice from experienced

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Geometry Review Guide Isidore Dressler, 1973

Schaum's Outline of Trigonometry Robert E. Moyer, 1998-12-21 Updated to match the emphasis in today's courses this clear study guide focuses entirely on plane trigonometry It summarizes the geometry properties and theorems that prove helpful for solving trigonometry problems Also where solving problems requires knowledge of algebra the algebraic processes and the basic trigonometric relations are explained carefully Hundreds of problems solved step by step speed comprehension make important points memorable and teach problem solving skills Many additional problems with answers help reinforce learning and let students gauge their progress as they go

Functions Modeling Change, Student Study Guide Eric Connally, Andrew M. Gleason, Philip Cheifetz, Brigitte Lahme, Carl Swenson, Deborah Hughes-Hallett, Frank Avenoso, Selin Kalaycıoğlu, Pat Shure, Katherine Yoshiwara, Ann Davidian, 2000-05-02 From the Calculus Consortium based at Harvard University this comprehensible book prepares readers for the study of calculus presenting families of functions as models for change These materials stress conceptual understanding and multiple ways of representing mathematical ideas

CLEP Official Study Guide College Board, 2001-08 This official guide developed by the sponsors of the CLEP exam includes a CD ROM for Windows that introduces test takers to the new computer based test and provides a tutorial for each exam

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Resource Masters McGraw-Hill Staff,2002-05 **Britannica Junior Study Guides: Mathematics** ,1954

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Table of Contents Triangle Trigonometry Study Guide

1. Understanding the eBook Triangle Trigonometry Study Guide
 - The Rise of Digital Reading Triangle Trigonometry Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Triangle Trigonometry Study Guide
 - 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 Triangle Trigonometry Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Triangle Trigonometry Study Guide
 - Personalized Recommendations
 - Triangle Trigonometry Study Guide User Reviews and Ratings
 - Triangle Trigonometry Study Guide and Bestseller Lists

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