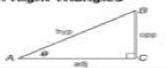
# 12-1 Study Guide and Intervention

### 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,  $\rho\rho\rho$  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.

$$\sin \theta = \frac{\exp}{hyp}$$
  
 $\sec \theta = hyp$ 

$$\cos \theta = \frac{107}{1079}$$
  
 $\sec \theta = \frac{1079}{1009}$ 

$$\tan \theta = \frac{\pi p p}{4dj}$$

Example: In a right triangle,  $\angle B$  is acute and  $\cos B = \frac{3}{5}$ . 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.

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

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

$$9 + b^2 - 49$$

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

Pythagorean Theorem

$$a = 3$$
 and  $a = 7$ 

Simplify.



Step 3 Find tan B.

$$tam B = \frac{opp}{a-t_0}$$

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

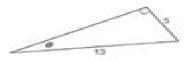
Tangent function

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

Exercises

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

1.



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

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

$$\frac{12\sqrt{193}}{193}$$
 or  $\approx 0.864$ 

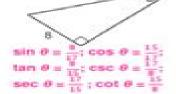
Chapter 12



5. If 
$$\cos A = \frac{1}{2}$$
, what is  $\tan A$ ?  
 $\sqrt{3}$  or  $\approx 1.732$ 

55

3.



6. If 
$$\sin B = \frac{3}{9}$$
, what is  $\tan B$ ?  
 $\frac{3\sqrt{55}}{55}$  or  $\approx 0.405$ 

# **Study Guide And Intervention Trigonometry Answers**

**Liying Dong** 

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**Algebra 2 Chapter 13 Resource Masters** McGraw-Hill Staff,2002-05

In Print 2004-2005 Ed Bowker Staff, Staff Bowker, Ed, 2004 ECEL2015-14th European Conference on e-Learning, Amanda Jefferies and Marija Cubric ,2015-10-13 These Proceedings represent the work of contributors to the 14th European Conference on e Learning ECEL 2015 hosted this year by the University of Hertfordshire Hatfield UK on 29 30 October 2015 The Conference and Programme Co Chairs are Pro fessor Amanda Jefferies and Dr Marija Cubric both from the University of Hertfordshire The conference will be opened with a keynote address by Professor Patrick McAndrew Director Institute of Educational Tech nology Open University UK with a talk on Innovating for learning designing for the future of education On the second day the keynote will be delivered by Professor John Traxler University of Wolverhampton UK on the subject of Mobile Learning No Longer Just e Learning with Mobiles ECEL provides a valuable platform for individuals to present their research findings display their work in progress and discuss conceptual advances in many different branches of e Learning At the same time it provides an important opportunity for members of the EL community to come together with peers share knowledge and exchange ideas With an initial submission of 169 abstracts after the double blind peer review process there are 86 academic papers 16 Phd Papers 5 Work in Progress papers and 1 non academic papers in these Conference Proceedings These papers reflect the truly global nature of research in the area with contributions from Algeria Australia Austria Belgium Botswana Canada Chile Cov entry Czech Republic Denmark Egypt England Estonia France Germany Ireland Japan Kazakhstan New Zealand Nigeria Norway Oman Portugal Republic of Kazakhstan Romania Saudi Arabia Scotland Singapore South Africa Sweden the Czech Republic Turkey Uganda UK United Arab Emirates UK and USA Zimbabwe A selection of papers those agreed by a panel of reviewers and the editor will be published in a special conference edition of the EJEL Electronic Journal of e Learning www ejel org The University Extension Journal London Society for the Extension of University Teaching, 1892 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1968 Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June **Books in Print Supplement** ,2002 Research in Education ,1974 Scientific American ,1918 The Engineer **Practical Pedagogy** Mike Sharples, 2019-04-01 Practical Pedagogy expands .1895 El-Hi Textbooks in Print ,1984 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

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#### **Table of Contents Study Guide And Intervention Trigonometry Answers**

- 1. Understanding the eBook Study Guide And Intervention Trigonometry Answers
  - The Rise of Digital Reading Study Guide And Intervention Trigonometry Answers
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Study Guide And Intervention Trigonometry Answers
  - Exploring Different Genres
  - $\circ\,$  Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Study Guide And Intervention Trigonometry Answers
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Study Guide And Intervention Trigonometry Answers
  - Personalized Recommendations
  - Study Guide And Intervention Trigonometry Answers User Reviews and Ratings
  - Study Guide And Intervention Trigonometry Answers and Bestseller Lists
- 5. Accessing Study Guide And Intervention Trigonometry Answers Free and Paid eBooks
  - Study Guide And Intervention Trigonometry Answers Public Domain eBooks
  - Study Guide And Intervention Trigonometry Answers eBook Subscription Services
  - Study Guide And Intervention Trigonometry Answers Budget-Friendly Options
- 6. Navigating Study Guide And Intervention Trigonometry Answers eBook Formats
  - o ePub, PDF, MOBI, and More
  - Study Guide And Intervention Trigonometry Answers Compatibility with Devices
  - Study Guide And Intervention Trigonometry Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Study Guide And Intervention Trigonometry Answers
  - Highlighting and Note-Taking Study Guide And Intervention Trigonometry Answers
  - Interactive Elements Study Guide And Intervention Trigonometry Answers
- 8. Staying Engaged with Study Guide And Intervention Trigonometry Answers

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Study Guide And Intervention Trigonometry Answers
- 9. Balancing eBooks and Physical Books Study Guide And Intervention Trigonometry Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Study Guide And Intervention Trigonometry Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Study Guide And Intervention Trigonometry Answers
  - Setting Reading Goals Study Guide And Intervention Trigonometry Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Study Guide And Intervention Trigonometry Answers
  - Fact-Checking eBook Content of Study Guide And Intervention Trigonometry 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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