

Pythagorean Theorem Worksheet

In any right triangle, the sum of the squares of the two shorter sides is equal to the square of the longer side.

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

Remember

$$a^2 = c^2 - b^2$$



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

Find the length of the missing side in the following examples. Round answers to the nearest tenth, if necessary. **Please do and show all work on a separate piece of loose leaf!**

1.



2.



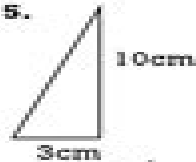
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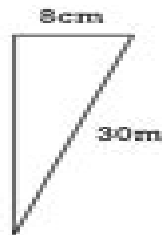
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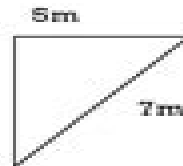
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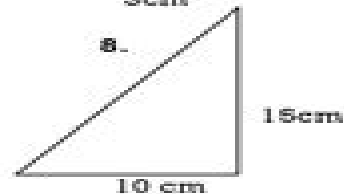
6.



7.



8.



9. 8cm



What is the length of the missing side for the following right angle triangles? **Show all work on a separate piece of loose leaf!**

10. $a = 3$; $b = 4$; $c = ?$

12. $a = 4$; $b = 2$; $c = ?$

11. $a = 6$; $b = ?$; $c = 16$;

13. $a = ?$; $b = 3.5$; $c = 4.2$

14. A ladder is leaning against the side of a 10m house. If the base of the ladder is 3m away from the house, how tall is the ladder? **Please draw a diagram and show all work.**

Geometry Practice And Homework Pythagorean Theorem Answers

Henri Picciotto, Anita Wah



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Table of Contents Geometry Practice And Homework Pythagorean Theorem Answers

1. Understanding the eBook Geometry Practice And Homework Pythagorean Theorem Answers
 - The Rise of Digital Reading Geometry Practice And Homework Pythagorean Theorem Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Geometry Practice And Homework Pythagorean Theorem Answers
 - 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 Geometry Practice And Homework Pythagorean Theorem Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Geometry Practice And Homework Pythagorean Theorem Answers

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

- Fact-Checking eBook Content of Geometry Practice And Homework Pythagorean Theorem 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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