

The Pythagorean Theorem

A right triangle is a triangle with an angle of 90° . The two sides that form the right angle are called legs. The side opposite the right angle is the hypotenuse.



The Pythagorean Theorem

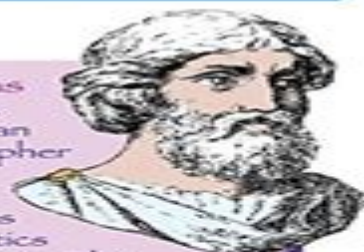
- Pythagoras was one of the first mathematicians to recognize the relationship between the sides of a right triangle. This special relationship forms the Pythagorean Theorem.
- The Pythagorean Theorem states that the sum of the squares of the legs of a right triangle equals the square of the length of the hypotenuse.
- According to the Pythagorean Theorem, the sum of the two green squares, is equal to the area of the blue square.

- Area of square **A** = a^2
- Area of square **B** = b^2
- Area of square **C** = c^2

Therefore in algebraic terms, the Pythagorean Theorem is stated as:

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

Pythagoras was a Greek mathematician and philosopher who made important contributions to mathematics and astronomy. The Pythagorean Theorem was Pythagoras' most famous mathematical contribution.



Using the Pythagorean Theorem



Find the length of the hypotenuse (**C**).

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

$$3^2 + 4^2 = c^2$$

$$9 + 16 = c^2$$

$$25 = c^2$$

$$\sqrt{25} = \sqrt{c^2}$$

$$5 = C$$

Substitute for the known variables.

Take the square root of both sides.

The length of the hypotenuse is 5cm.



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Facing Math The Pythagorean Theorem

Merle A. Barlow



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Table of Contents Facing Math The Pythagorean Theorem

1. Understanding the eBook Facing Math The Pythagorean Theorem
 - The Rise of Digital Reading Facing Math The Pythagorean Theorem
 - Advantages of eBooks Over Traditional Books
2. Identifying Facing Math The Pythagorean Theorem
 - 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 Facing Math The Pythagorean Theorem
 - User-Friendly Interface
4. Exploring eBook Recommendations from Facing Math The Pythagorean Theorem
 - Personalized Recommendations
 - Facing Math The Pythagorean Theorem User Reviews and Ratings
 - Facing Math The Pythagorean Theorem and Bestseller Lists

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