

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

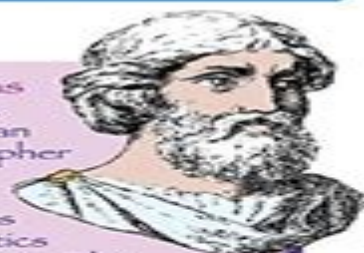
- Pythagoras was one of the first mathematicians to recognize the relationship between the sides of a right triangle. This special relationship forms the Pythagorean Theorem.
- The Pythagorean Theorem states that the sum of the squares of the legs of a right triangle equals the square of the length of 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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Faceing Math The Pythagorean Theorem

S Baum



Faceing Math The Pythagorean Theorem:

The book delves into Facing Math The Pythagorean Theorem. Facing Math The Pythagorean Theorem is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Facing Math The Pythagorean Theorem, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Facing Math The Pythagorean Theorem
 - Chapter 2: Essential Elements of Facing Math The Pythagorean Theorem
 - Chapter 3: Facing Math The Pythagorean Theorem in Everyday Life
 - Chapter 4: Facing Math The Pythagorean Theorem in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Facing Math The Pythagorean Theorem. This chapter will explore what Facing Math The Pythagorean Theorem is, why Facing Math The Pythagorean Theorem is vital, and how to effectively learn about Facing Math The Pythagorean Theorem.
 3. In chapter 2, the author will delve into the foundational concepts of Facing Math The Pythagorean Theorem. This chapter will elucidate the essential principles that need to be understood to grasp Facing Math The Pythagorean Theorem in its entirety.
 4. In chapter 3, the author will examine the practical applications of Facing Math The Pythagorean Theorem in daily life. This chapter will showcase real-world examples of how Facing Math The Pythagorean Theorem can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Facing Math The Pythagorean Theorem in specific contexts. This chapter will explore how Facing Math The Pythagorean Theorem is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Facing Math The Pythagorean Theorem. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Facing Math The Pythagorean Theorem.

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