

Definition Of Pythagorean Theorem In Math

Meta Description (Under 160 characters): Understand the Pythagorean theorem: a fundamental concept in geometry. This guide explains its definition, applications, and provides examples with visuals. Learn how this theorem solves real-world problems and expands your mathematical understanding. The Pythagorean Theorem: A Cornerstone of Geometry The Pythagorean theorem is a fundamental concept in geometry, forming the bedrock for countless mathematical applications and real-world problem-solving. Understanding this theorem unlocks a deeper appreciation for the relationships between the sides of a right-angled triangle. This will delve into its definition, applications, and explore some frequently asked questions.

Definition of Pythagorean Theorem in Math

The Pythagorean theorem states that in a right-angled triangle, the square of the length of the hypotenuse (the side opposite the right angle) is equal to the sum of the squares of the lengths of the other two sides (called legs or cathetus). Mathematically, this is represented as: $a^2 + b^2 = c^2$ Where:

- a and b are the lengths of the two shorter sides (legs) of the right-angled triangle.
- c is the length of the hypotenuse (the longest side).

![[Right-angled triangle illustrating Pythagorean theorem]](<https://i.imgur.com/vM2y08K.png>) This simple equation holds true for *every* right-angled triangle, regardless of its size or orientation.

Benefits of Understanding the Pythagorean Theorem

- **Solving Geometric Problems:** The theorem allows you to calculate the length of an unknown side of a right-angled triangle if you know the lengths of the other two sides. This is crucial in various fields like construction, surveying, and engineering.
- **Developing Spatial Reasoning:** Understanding the theorem enhances your spatial reasoning skills, your ability to visualize and manipulate shapes in three-dimensional space.
- **Foundation for Advanced Math:** The Pythagorean theorem is a building block for more advanced mathematical concepts, including trigonometry, calculus, and linear algebra.
- **Real-World Applications:** Its applications extend beyond academics; it's used in navigation, computer graphics, and even designing staircases.

Pythagorean Triples

A Pythagorean triple is a set of three positive integers (a , b , c) that satisfy the Pythagorean equation: $a^2 + b^2 = c^2$. For example, (3, 4, 5) is a Pythagorean triple because $3^2 + 4^2 = 9 + 16 = 25 = 5^2$. Knowing these triples can simplify calculations in certain problems. Some common Pythagorean triples include:

a	b	c
3	4	5
5	12	13
7	24	25
8	15	17
9	40	41

Applications of the Pythagorean Theorem

The practical applications of the Pythagorean theorem are vast and varied:

- **Construction:** Determining the correct length of diagonals for buildings, bridges, and other structures.
- **Navigation:** Calculating distances on maps using latitude and longitude.
- **Surveying:** Measuring land areas and distances indirectly.
- **Computer Graphics:** Creating realistic images and animations.
- **Engineering:** Designing structures and machines.

Converse of the Pythagorean Theorem

The converse of the Pythagorean theorem states that if the square of the length of the longest side of a triangle is equal to the sum of the squares of the lengths of the other two sides, then the triangle is a right-angled triangle. This is a crucial tool for determining if a triangle is right-angled when only the side lengths are known.

Limitations and Extensions

While the Pythagorean theorem applies perfectly to right-angled triangles in Euclidean geometry, it needs modification for non-Euclidean geometries (like spherical geometry). In these spaces, the relationship between the sides and angles of a triangle is different.

Thought-Provoking Insights

The elegance and simplicity of the Pythagorean theorem belie its profound implications. Its enduring relevance across centuries and disciplines highlights its fundamental importance in mathematics and its connection to the very fabric of our physical world. The theorem serves as a testament to the power of mathematical abstraction and its capacity to both describe and predict the behavior of the universe.

Advanced FAQs

1. How can the Pythagorean theorem be used to prove the distance formula in coordinate geometry? The distance formula, $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$, is derived directly from applying the Pythagorean theorem to a triangle formed by two points in a Cartesian plane. 2. *What are some non-trivial applications of the Pythagorean theorem in physics?* The theorem is vital in calculating vector components and resolving forces in mechanics, and in understanding concepts in optics and electromagnetism. 3. **How is the Pythagorean theorem related to trigonometry?** Trigonometric functions (sine, cosine, tangent) are defined in relation to the sides of a right-angled triangle, directly relying on the relationship established by the Pythagorean theorem. 4. How do you solve problems involving Pythagorean triples that don't immediately fit the formula? You often need to manipulate equations or use algebraic techniques to find solutions, potentially factoring or using substitution methods. 5. **Are there any geometric proofs of the Pythagorean theorem besides the classic square-based proof?** Yes, there are numerous alternative proofs, some involving dissection and rearrangement of shapes, others utilizing similar triangles or calculus-based approaches. Exploring these alternative proofs provides a deeper understanding of the theorem's geometric underpinnings.

The Pythagorean Theorem: Unlocking the Secrets of Right Triangles

Math can sometimes feel like a foreign language, filled with abstract symbols and complex formulas. But fear not! Even the most seemingly intricate concepts often have elegant, foundational principles that, once understood, open up whole new worlds of problem-solving. Today, we're diving deep into one of these fundamental building blocks: the Pythagorean Theorem. If you've ever encountered a right triangle in geometry class, or even in real-world applications like construction or navigation, you've likely brushed shoulders with this powerful theorem. Let's break down the definition of the Pythagorean Theorem in math, explore its significance, and see how it's not just an academic exercise but a practical tool.

What Exactly is the Pythagorean Theorem?

At its core, the Pythagorean Theorem is a fundamental relationship in Euclidean geometry that describes the sides of a **right triangle**. For those who might need a refresher, a right triangle is a triangle that has one angle measuring exactly 90 degrees (a right angle). Think of it like the corner of a square or a book – that perfect L-shape. The theorem states that **in a right triangle, the square of the length of the hypotenuse (the side opposite the right angle) is equal to the sum of the squares of the lengths of the other two sides (the legs)**. Let's unpack that.

The Cast of Characters: Sides of a Right Triangle

Before we get to the formula itself, it's crucial to identify the players involved: **Hypotenuse**: This is the longest side of the right triangle, and it's always the side directly across from the right angle. It's often denoted by the letter 'c'. **Legs**: These are the two shorter sides of the right triangle that form the right angle. They are often denoted by the letters 'a' and 'b'. It doesn't matter which leg you call 'a' and which you call 'b'; the theorem holds true regardless.

The Famous Formula: $a^2 + b^2 = c^2$

This is the iconic equation that embodies the Pythagorean Theorem. a^2 represents the square of the length of one leg. b^2 represents the square of the length of the other leg. c^2 represents the square of the length of the hypotenuse. So, if you know the lengths of any two sides of a right triangle, you can use this formula to find the length of the third side. This is where the real magic of the Pythagorean Theorem begins!

Why is the Pythagorean Theorem So Important?

The Pythagorean Theorem isn't just a neat mathematical trick; it's a cornerstone of geometry and has far-reaching implications across various fields. Its importance stems from several key aspects:

1. Establishing a Fundamental Geometric Relationship

The theorem provides a definitive and elegant way to relate the lengths of the sides of any right triangle. This relationship is constant and universal, making it an incredibly reliable tool. It's a foundational concept that underpins many other geometric theorems and proofs. Understanding this relationship is crucial for anyone serious about geometry.

2. Enabling Distance Calculations

Imagine you're plotting points on a coordinate plane. The Pythagorean Theorem is directly used to calculate the **distance between two points**. If you have two points (x1, y1) and (x2, y2), you can form a right triangle where the legs are the differences in the x-coordinates ($|x2 - x1|$) and the y-coordinates ($|y2 - y1|$). The hypotenuse of this triangle will be the straight-line distance between the two points. This is invaluable in fields like computer graphics, mapping, and surveying.

3. The Foundation for Trigonometry

While trigonometry deals with angles and their relationships to the sides of triangles, it is heavily reliant on the Pythagorean Theorem. The basic trigonometric functions like sine, cosine, and tangent are often defined using right triangles, and their identities are derived from or are direct consequences of the Pythagorean Theorem. For instance, the fundamental trigonometric identity, $\sin^2(\theta) + \cos^2(\theta) = 1$, is a direct analogue of the Pythagorean Theorem.

4. Practical Applications in the Real World

The Pythagorean Theorem isn't confined to textbooks. Its applications are remarkably diverse and practical:

- Construction and Architecture:** Builders use it to ensure corners are perfectly square, to calculate the length of diagonal braces, and to determine the slope of roofs. Imagine ensuring a wall is perfectly vertical or a floor is perfectly level; the Pythagorean Theorem is implicitly at play.
- Navigation:** Sailors and pilots use it to calculate distances and bearings, especially when dealing with routes that aren't straight lines.
- Engineering:** Designing structures, bridges, and even everyday objects often involves calculating lengths and ensuring stability, where right triangle relationships are common.
- Art and Design:** Artists might use it to ensure proportions are correct or to create perspective.
- Carpentry:** Cutting wood at specific angles or ensuring pieces fit together snugly often involves this theorem.
- Urban Planning:** Determining distances on city grids.

5. Proving Geometric Properties

Beyond calculation, the Pythagorean Theorem is a powerful tool for proving other geometric statements. It can be used to demonstrate whether a triangle is a right triangle, to prove properties of shapes, and to explore more complex geometric figures.

Illustrative Examples of the Pythagorean Theorem in Action

Let's make this theorem tangible with some examples.

Example 1: Finding the Hypotenuse

Suppose you have a right triangle with one leg measuring 3 units and the other leg measuring 4 units. What is the length of the hypotenuse? Using the formula $a^2 + b^2 = c^2$:

$$a = 3, b = 4 \Rightarrow 3^2 + 4^2 = c^2 \Rightarrow 9 + 16 = c^2 \Rightarrow 25 = c^2$$

To find 'c', we take the square root of both sides:

$$c = \sqrt{25} \Rightarrow c = 5$$

So, the hypotenuse of this right triangle is 5 units long. This is a classic example of a **Pythagorean triple** (3, 4, 5), where all sides are integers. Other common Pythagorean triples include (5, 12, 13) and (8, 15, 17).

Example 2: Finding a Missing Leg

Now, let's say you know the hypotenuse is 10 units and one leg is 6 units. You need to find the length of the other leg. Using the formula $a^2 + b^2 = c^2$:

$$\text{Let } a = 6, c = 10. \text{ We need to find 'b'. } 6^2 + b^2 = 10^2 \Rightarrow 36 + b^2 = 100$$

To isolate b^2 , subtract 36 from both sides:

$$b^2 = 100 - 36 \Rightarrow b^2 = 64$$

Now, take the square root of both sides:

$$b = \sqrt{64} \Rightarrow b = 8$$

The missing leg is 8 units long.

Example 3: Does it Form a Right Triangle?

What if you're given three side lengths, say 7, 8, and 10, and you want to know if they can form a right triangle? According to the converse of the Pythagorean Theorem, if the square of the longest side is equal to the sum of the squares of the other two sides, then the triangle is a right triangle.

- Longest side (hypotenuse candidate) = 10
- Other two sides (legs candidates) = 7 and 8

Let's check:

$$7^2 + 8^2 = 49 + 64 = 113 \neq 10^2 = 100$$

Since $113 \neq 100$, a triangle with sides 7, 8, and 10 is **not** a right triangle.

Understanding the Converse of the Pythagorean Theorem

The converse of a theorem is just as important as the original statement. The **Converse of the Pythagorean Theorem** states that if the square of the length of the longest side of a triangle is equal to the sum of the squares of the lengths of the other two sides, then the triangle is a right triangle. This is incredibly useful for determining if a given triangle is indeed a right triangle, as demonstrated in Example 3.

Beyond the Basics: Visualizing the Theorem

While the formula $a^2 + b^2 = c^2$ is powerful, visualizing it can enhance understanding. Imagine drawing squares on each of the three sides of a right triangle. The area of the square drawn on the hypotenuse will be exactly equal to the sum of the areas of the squares drawn on the two legs. This geometric interpretation, attributed to ancient Greek mathematicians like Pythagoras, makes the relationship intuitively clear.

The History and Legacy of the Pythagorean Theorem

While named after the Greek mathematician Pythagoras (around 570 – 495 BC), evidence suggests that the concept was understood and utilized by earlier civilizations, including the Babylonians and Egyptians, long before Pythagoras. However, Pythagoras and his school are credited with providing the first rigorous proof of the theorem. This mathematical achievement has cemented its place as one of the most celebrated theorems in history, influencing the development of mathematics for millennia.

Key Takeaways: The Essence of the Pythagorean Theorem

To summarize, the definition of the Pythagorean Theorem in math boils down to this: * It applies exclusively to **right triangles**. * It establishes a direct relationship between the lengths of the three sides. * The formula is **$a^2 + b^2 = c^2$** , where 'a' and 'b' are the lengths of the legs, and 'c' is the length of the hypotenuse. * It allows us to find a missing side length if two sides are known. * Its **converse** allows us to determine if a triangle is a right triangle. * It has profound implications in geometry, trigonometry, and numerous practical applications. So, the next time you see a right angle, whether it's on a piece of paper, in a building, or on a map, remember the Pythagorean Theorem. It's a timeless piece of mathematical wisdom that continues to help us understand and shape the world around us. It's more than just an equation; it's a fundamental truth about shapes and space, a testament to the elegance and power of mathematics.

The Pythagorean Theorem: A Fundamental Pillar of Geometry

The Pythagorean Theorem stands as one of the most celebrated and foundational principles in mathematics, particularly within the realm of geometry. At its core, the theorem defines a precise relationship between the sides of a right-angled triangle—a triangle that contains one angle exactly equal to ninety degrees. This relationship states that the square of the length of the hypotenuse—the side opposite the right angle—is equal to the sum of the squares of the lengths of the other two sides. Expressed mathematically, if a right triangle has legs measuring a and b , and hypotenuse c , then the equation $a^2 + b^2 = c^2$ holds true. This simple yet powerful formula unlocks a wealth of geometric understanding and practical application.

Historical Roots and Mathematical Essence

Though attributed to the ancient Greek mathematician Pythagoras, who is believed to have formalized it in the 6th century BCE, evidence suggests earlier knowledge of this relationship existed in Mesopotamian and Indian mathematical traditions. The theorem's enduring significance lies in its ability to transform abstract geometric relationships into measurable, calculable truths. It bridges algebra and geometry, allowing complex spatial problems to be solved through straightforward numerical computation. The theorem does more than describe triangles—it serves as a gateway to understanding distance, symmetry, and spatial relationships across countless mathematical and scientific disciplines.

The theorem operates on a principle of invariance—regardless of a triangle's size or orientation, as long as it retains its right angle, the equation remains valid. This consistency makes it an indispensable tool in both

theoretical proofs and real-world problem solving. From ancient surveyors measuring land to modern engineers designing structures, the Pythagorean Theorem provides a reliable foundation for calculating unknown lengths, verifying right angles, and modeling spatial configurations.

Wide-Ranging Applications and Benefits

The applications of the Pythagorean Theorem extend far beyond the classroom. In architecture and construction, it helps ensure walls and foundations meet precise right-angle specifications, guaranteeing structural integrity. In navigation and cartography, the theorem aids in calculating shortest distances, whether determining the direct path between two points on a map or optimizing flight routes. In physics, it underpins vector analysis, enabling the computation of resultant forces and velocities in two-dimensional space.

Beyond practical use, the theorem enhances logical reasoning and spatial visualization. Learning to apply $a^2 + b^2 = c^2$ sharpens analytical skills and fosters a deeper appreciation for mathematical relationships. It empowers students and professionals alike to approach problems with confidence, knowing a proven, elegant solution exists. Its simplicity belies its depth—making it a cornerstone of mathematical education that continues to inspire new generations of thinkers and innovators.

Looking to the Future: Enduring Relevance in a Digital Age

As technology advances, the Pythagorean Theorem remains as relevant as ever. It forms a core component of computer graphics, robotics, and artificial intelligence, where geometric calculations drive visual rendering and motion planning. In educational technology, interactive simulations bring the theorem to life, helping learners explore its principles dynamically. Researchers and engineers continue to adapt its logic to solve emerging challenges in fields like quantum computing and spatial data analysis.

The theorem's timeless nature lies in its universality—its truths transcend cultures, eras, and disciplines. As long as geometry plays a role in understanding space, the Pythagorean Theorem will endure not just as a formula, but as a symbol of mathematical clarity and enduring human curiosity. Its legacy is not confined to the past; it actively shapes the future of science, technology, and innovation.

The Pythagorean Theorem: A Cornerstone of Geometry

The Pythagorean Theorem is arguably one of the most famous and fundamental principles in mathematics, a cornerstone of geometry that has captivated thinkers for centuries. Its elegant simplicity belies its profound implications, extending far beyond the classroom to shape fields like engineering, architecture, navigation, and even computer graphics. But what exactly is the **definition of the Pythagorean Theorem in math**, and why does it hold such enduring significance?

At its core, the Pythagorean Theorem describes a fundamental relationship between the sides of a **right-angled triangle**. This relationship is so crucial that understanding it unlocks a vast array of geometric calculations and problem-solving techniques. This article will delve deep into the definition, explore its components, provide practical examples, and shed light on its historical context and widespread applications.

Understanding the Right-Angled Triangle

Before we can fully grasp the Pythagorean Theorem, it's essential to understand the anatomy of a right-angled triangle. As the name suggests, this type of triangle possesses one angle that measures exactly 90 degrees. This specific angle is crucial to the theorem's applicability.

The sides of a right-angled triangle also have specific names:

1. **Hypotenuse:** This is the longest side of the right-angled triangle and is always located opposite the right angle. It's often denoted by the letter 'c'.
2. **Legs (or Cathetus):** These are the two shorter sides of the triangle that form the right angle. They are typically denoted by the letters 'a' and 'b'.

The distinction between the hypotenuse and the legs is vital when applying the Pythagorean Theorem. Misidentifying these sides can lead to incorrect calculations and a misunderstanding of the theorem's principles.

The Mathematical Definition of the Pythagorean Theorem

The **definition of the Pythagorean Theorem in math** can be concisely stated as follows: **In a right-angled triangle, the square of the length of the hypotenuse (c) is equal to the sum of the squares of the lengths of the other two sides (a and b).**

Mathematically, this is expressed as the iconic equation:

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

Let's break down this equation:

1. **a^2 :** Represents the area of a square whose side length is 'a' (one of the legs).
2. **b^2 :** Represents the area of a square whose side length is 'b' (the other leg).
3. **c^2 :** Represents the area of a square whose side length is 'c' (the hypotenuse).

The theorem essentially states that the combined area of the two smaller squares built on the legs of a right-angled triangle is precisely equal to the area of the larger square built on its hypotenuse. This geometric interpretation provides a powerful visual understanding of the theorem.

Key Concepts and Terminology

To fully comprehend the Pythagorean Theorem, it's helpful to be familiar with some related mathematical concepts:

1. **Square:** A number multiplied by itself (e.g., $3^2 = 3 * 3 = 9$).
2. **Square Root:** The inverse operation of squaring. The square root of a number is a value that, when multiplied by itself, gives the original number (e.g., $\sqrt{9} = 3$).
3. **Pythagorean Triple:** A set of three positive integers (a, b, c) that satisfy the equation $a^2 + b^2 = c^2$. The most famous Pythagorean triple is (3, 4, 5), because $3^2 + 4^2 = 9 + 16 = 25$, and $5^2 = 25$.
4. **Converse of the Pythagorean Theorem:** If the square of the length of the longest side of a triangle is equal to the sum of the squares of the lengths of the other two sides, then the triangle is a right-angled triangle. This converse is equally important, allowing us to determine if a triangle is right-angled.

Applying the Pythagorean Theorem: Practical Examples

The true power of the Pythagorean Theorem lies in its ability to solve for an unknown side of a right-angled triangle when two other sides are known. Let's explore some examples:

Example 1: Finding the Hypotenuse

Imagine a right-angled triangle with legs of length 6 cm and 8 cm. We want to find the length of the hypotenuse (c).

1. Using the formula: $a^2 + b^2 = c^2$
2. Substitute the known values: $6^2 + 8^2 = c^2$
3. Calculate the squares: $36 + 64 = c^2$

4. Sum the results: $100 = c^2$
5. Take the square root of both sides: $\sqrt{100} = c$
6. Therefore, $c = 10$ cm. The hypotenuse is 10 cm long.

Example 2: Finding a Leg

Consider a right-angled triangle where the hypotenuse is 13 meters and one leg is 5 meters. We need to find the length of the other leg (b).

1. Using the formula: $a^2 + b^2 = c^2$
2. Rearrange the formula to solve for b^2 : $b^2 = c^2 - a^2$
3. Substitute the known values: $b^2 = 13^2 - 5^2$
4. Calculate the squares: $b^2 = 169 - 25$
5. Subtract the results: $b^2 = 144$
6. Take the square root of both sides: $\sqrt{144} = b$
7. Therefore, $b = 12$ meters. The missing leg is 12 meters long.

Historical Significance and Proofs

While the theorem bears the name of the ancient Greek mathematician Pythagoras (circa 570 – 495 BC), evidence suggests that the relationship was known to earlier civilizations, including the Babylonians and Egyptians. However, Pythagoras is credited with being the first to provide a formal, logical proof of the theorem.

Numerous proofs of the Pythagorean Theorem exist, each offering a different perspective on why this relationship holds true. Some popular proof methods include:

1. **Geometric Proofs:** These proofs often involve rearranging geometric shapes (like squares and triangles) to visually demonstrate the equality of areas.
2. **Algebraic Proofs:** These proofs utilize algebraic manipulation of equations derived from geometric constructions.
3. **Proof by Similarity:** This method involves dividing the right-angled triangle into smaller, similar triangles and using the properties of similarity.

The existence of so many proofs underscores the theorem's fundamental nature and the diverse ways mathematicians have approached understanding it.

Beyond the Triangle: Applications of the Pythagorean Theorem

The applications of the Pythagorean Theorem extend far beyond solving abstract geometry problems. Its ability to relate lengths and distances makes it incredibly valuable in a wide range of practical fields:

Navigation and Surveying

In navigation, the Pythagorean Theorem can be used to calculate the shortest distance between two points on a flat surface or to determine the distance to an object based on angular measurements. Surveyors use it to calculate distances and elevations, ensuring accurate land mapping.

Construction and Architecture

Builders and architects rely on the theorem to ensure that corners are perfectly square, a critical aspect of structural integrity. For instance, when framing a wall, measuring 3 units along one side and 4 units along the other, and then verifying that the diagonal distance is 5 units confirms a true right angle.

Engineering and Physics

In physics, the theorem is used to calculate resultant vectors, such as combining forces or velocities that are perpendicular to each other. Engineers use it in structural design, stress analysis, and in calculating the lengths of components.

Computer Graphics and Game Development

The Pythagorean Theorem is fundamental in computer graphics for calculating distances between objects, determining line-of-sight, and rendering 3D environments. Game developers use it extensively for physics simulations and character movement.

Distance Formula in Coordinate Geometry

The distance formula, used to calculate the distance between two points (x_1, y_1) and (x_2, y_2) in a Cartesian coordinate system, is a direct application of the Pythagorean Theorem: **Distance** = $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$. This formula effectively treats the difference in x-coordinates and the difference in y-coordinates as the legs of a right-angled triangle.

Conclusion: An Enduring Mathematical Principle

The **definition of the Pythagorean Theorem in math** - $a^2 + b^2 = c^2$ - represents far more than just an equation. It embodies a fundamental truth about the nature of space and form, a relationship that has been understood and utilized for millennia. Its simplicity, elegance, and vast applicability solidify its position as one of the most important and enduring theorems in the history of mathematics. From the classroom to the cutting edge of technology, the Pythagorean Theorem continues to illuminate our understanding of the world around us.

Whether you are a student learning geometry for the first time or a seasoned professional in a technical field, a solid understanding of the Pythagorean Theorem is an invaluable asset. It's a testament to the power of abstract mathematical concepts to provide practical solutions and deepen our appreciation for the interconnectedness of geometric principles.

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Questions & Answers About definition of pythagorean theorem in math

No	Question	Answer
1	What's the Pythagorean theorem in simple terms?	In a right-angled triangle, the Pythagorean theorem states that the square of the hypotenuse (the side opposite the right angle) is equal to the sum of the squares of the other two sides (legs).
2	What's the formula for the Pythagorean theorem?	The formula is $a^2 + b^2 = c^2$, where 'a' and 'b' are the lengths of the two shorter sides (legs) of a right-angled triangle, and 'c' is the length of the longest side (hypotenuse).
3	When can I use the Pythagorean theorem?	You can use the Pythagorean theorem anytime you have a right-angled triangle and you know the lengths of two sides, and you want to find the length of the third side.
4	Does the Pythagorean theorem work for all triangles?	No, the Pythagorean theorem specifically applies only to right-angled triangles, which are triangles that have one angle measuring exactly 90 degrees.

5	What's the hypotenuse in a right-angled triangle?	The hypotenuse is always the longest side of a right-angled triangle and is the side that is directly opposite the 90-degree angle.
6	Can the Pythagorean theorem be used to find the area of a triangle?	Not directly. While the theorem deals with side lengths, it doesn't calculate area. However, if you know all three side lengths of a right-angled triangle, you can easily calculate its area using the formula $(1/2) * \text{base} * \text{height}$, where the legs are the base and height.

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