

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

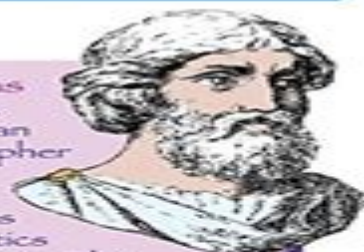
- Pythagoras was one of the first mathematicians to recognize the relationship between the sides of a right triangle. This special relationship forms the Pythagorean Theorem.
- The Pythagorean Theorem states that the sum of the squares of the legs of a right triangle equals the square of the length of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

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