



RIGHT TRIANGLE SIDES RELATION

Why

How does constraining a triangle to be a right angle constrain the lengths of its sides?

Result

Proposition 1. *Let a and b be the lengths of the sides of a right triangle and c be the length of the hypotenuse. Then*

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

The result is called *Pythagorean theorem* and the equation is called the *Pythagorean equation*.

