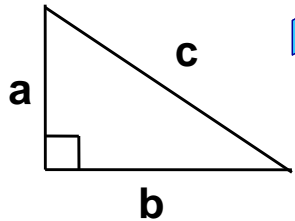


The

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

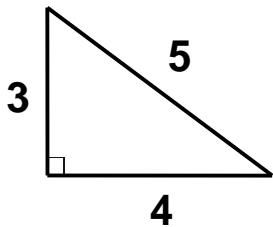
11.6 Pythagorean



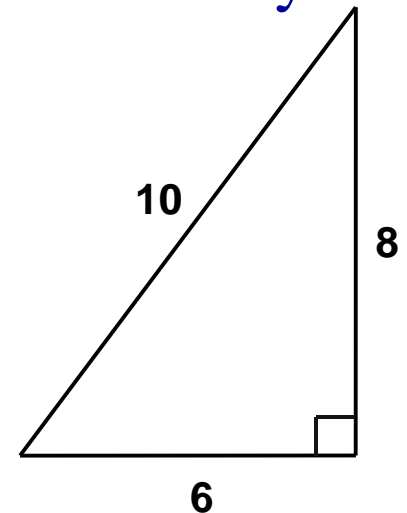
Theorem

About 2,500 years ago, a Greek mathematician named Pythagorus discovered a special relationship between the sides of right triangles.

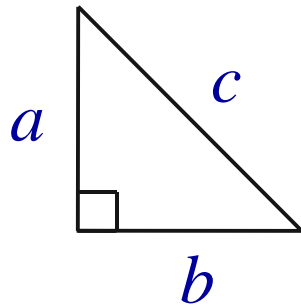
Pythagorus realized that if you have a right triangle,



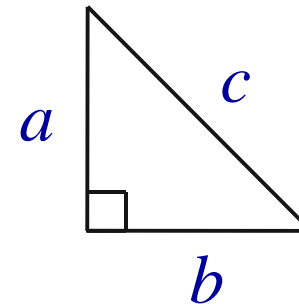
It is. And it is true for any right triangle.



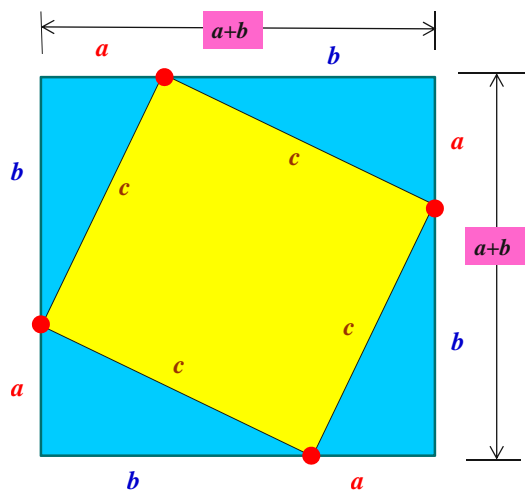
The Pythagorean Theorem says, given the right triangle with legs a and b and hypotenuse c ,



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



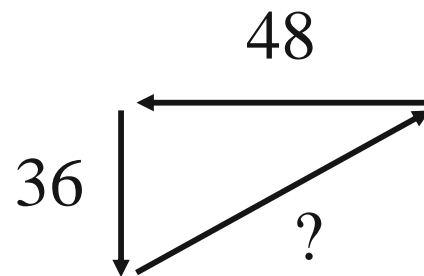
A PROOF OF THE PYTHAGOREAN THEOREM



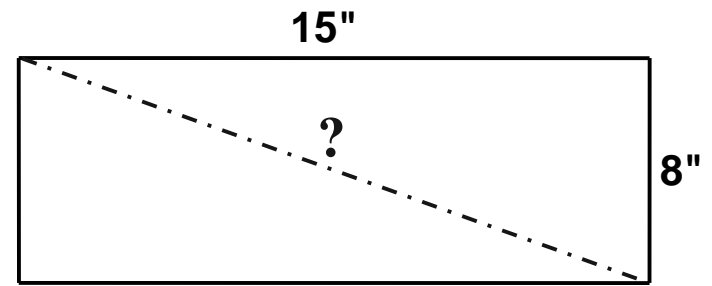
A PROOF OF THE PYTHAGOREAN THEOREM



How far are you from where you started?



Find the length of a diagonal of the rectangle:



Practice using
The Pythagorean Theorem
to solve these right triangles:

