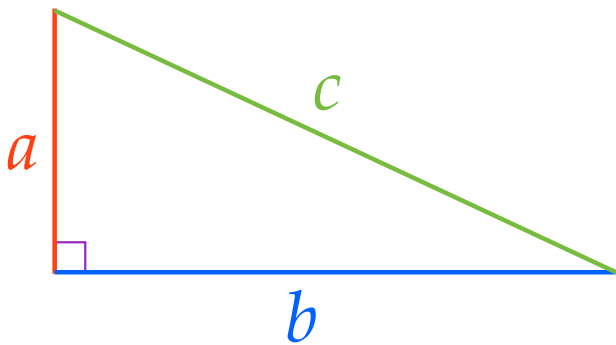


In a right triangle, the sum of the squares of the legs is equal to the square of the hypotenuse.



$$(\text{leg})^2 + (\text{leg})^2 = (\text{hypotenuse})^2$$

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

$$a^2 + b^2 \neq c^2$$

Given three sides of a triangle,  $a$ ,  $b$ , and  $c$  ( $c$  being the longest side)...

If  $a^2 + b^2 < c^2$ ,  
then the triangle is an  
obtuse triangle.

If  $a^2 + b^2 = c^2$ ,  
then the triangle is a  
right triangle.

If  $a^2 + b^2 > c^2$ ,  
then the triangle is an  
acute triangle.

Classify the following triangles as obtuse, right, or acute.

Side lengths 4, 8, and 10

Given three sides of a triangle,  $a$ ,  $b$ , and  $c$  ( $c$  being the longest side)...

If  $a^2 + b^2 < c^2$ ,  
then the triangle is an  
obtuse triangle.

If  $a^2 + b^2 = c^2$ ,  
then the triangle is a  
right triangle.

If  $a^2 + b^2 > c^2$ ,  
then the triangle is an  
acute triangle.

Classify the following triangles as obtuse, right, or acute.

Side lengths 9, 12, and 15

Given three sides of a triangle,  $a$ ,  $b$ , and  $c$  ( $c$  being the longest side)...

If  $a^2 + b^2 < c^2$ ,  
then the triangle is an  
obtuse triangle.

If  $a^2 + b^2 = c^2$ ,  
then the triangle is a  
right triangle.

If  $a^2 + b^2 > c^2$ ,  
then the triangle is an  
acute triangle.

Classify the following triangles as obtuse, right, or acute.

Side lengths 12, 10, and 14

Given three sides of a triangle,  $a$ ,  $b$ , and  $c$  ( $c$  being the longest side)...

If  $a^2 + b^2 < c^2$ ,  
then the triangle is an  
obtuse triangle.

If  $a^2 + b^2 = c^2$ ,  
then the triangle is a  
right triangle.

If  $a^2 + b^2 > c^2$ ,  
then the triangle is an  
acute triangle.

Classify the following triangles as obtuse, right, or acute.

Side lengths 6, 8, and 10

Given three sides of a triangle,  $a$ ,  $b$ , and  $c$  ( $c$  being the longest side)...

If  $a^2 + b^2 < c^2$ ,  
then the triangle is an  
obtuse triangle.

If  $a^2 + b^2 = c^2$ ,  
then the triangle is a  
right triangle.

If  $a^2 + b^2 > c^2$ ,  
then the triangle is an  
acute triangle.

Classify the following triangles as obtuse, right, or acute.

Side lengths 2, 4, and 5

Given three sides of a triangle,  $a$ ,  $b$ , and  $c$  ( $c$  being the longest side)...

If  $a^2 + b^2 < c^2$ ,  
then the triangle is an  
obtuse triangle.

If  $a^2 + b^2 = c^2$ ,  
then the triangle is a  
right triangle.

If  $a^2 + b^2 > c^2$ ,  
then the triangle is an  
acute triangle.

Classify the following triangles as obtuse, right, or acute.

Side lengths 8, 8, and 9

Given three sides of a triangle,  $a$ ,  $b$ , and  $c$  ( $c$  being the longest side)...

If  $a^2 + b^2 < c^2$ ,  
then the triangle is an  
obtuse triangle.

If  $a^2 + b^2 = c^2$ ,  
then the triangle is a  
right triangle.

If  $a^2 + b^2 > c^2$ ,  
then the triangle is an  
acute triangle.