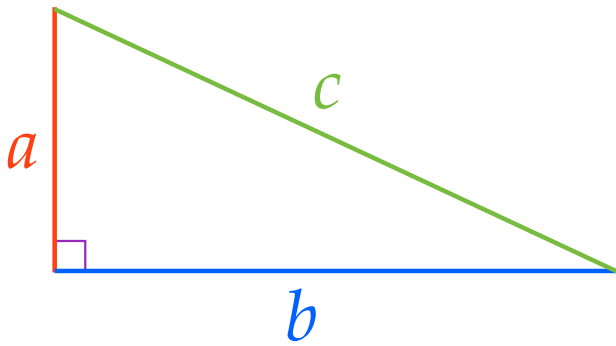


Pythagorean Theorem

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



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

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

Pythagorean Triple

A set of whole numbers, a , b , and c , such that...

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

3, 4, and 5 form
a Pythagorean Triple

5, 12, and 13 form
a Pythagorean Triple

Pythagorean Triple

A set of whole numbers, a , b , and c , such that...

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

Do the following whole numbers form a pythagorean triple?

4, 5, and 6

6, 8, and 10

17, 8, and 15

Pythagorean Triple

A set of whole numbers, a , b , and c , such that...

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

Given two whole numbers, determine the third whole number to create a pythagorean triple.

9 and 15

Pythagorean Triple

A set of whole numbers, a , b , and c , such that...

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

Given two whole numbers, determine the third whole number to create a pythagorean triple.

20 and 21

Pythagorean Triple

A set of whole numbers, a , b , and c , such that...

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

Given two whole numbers, determine the third whole number to create a pythagorean triple.

12 and 37

Given a , b , and c form a Pythagorean Triple, any whole number multiple of a , b , and c will also form a Pythagorean Triple.

3, 4 and 5 form a Pythagorean Triple

× 2

× 3

× 4

5, 12 and 13 form a Pythagorean Triple

× 2

× 3

× 4

Pythagorean Triple

A set of whole numbers, a , b , and c , such that...

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

Given a , b , and c form a Pythagorean Triple, any whole number multiple of a , b , and c will also form a Pythagorean Triple.