

# Pythagorean Theorem

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

a and b are the legs, c is the hypotenuse of a right triangle.

The hypotenuse is the longest side, and it is opposite the right angle.

## Pythagorean Triplets

These are whole numbered sides that satisfy the Pythagorean Theorem.

The first four are helpful to memorize.

3, 4, 5

5, 12, 13

7, 24, 25

8, 15, 17

Others are interesting, but you don't need to memorize them.

9, 40, 41

11, 60, 61

12, 35, 37

13, 84, 85

16, 63, 65

20, 21, 29

28, 45, 53

33, 56, 65

36, 77, 85

39, 80, 89

48, 55, 73

65, 72, 97

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