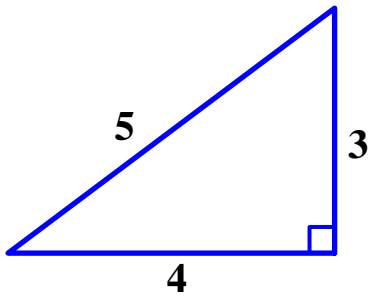# PYTHAGOREAN TRIADS

Because the triangle is right-angled then {3, 4, 5} is a Pythagorean triad.

$$5^2 = 25$$
$$3^2 + 4^2 = 25$$

Examples

Which of the following are Pythagorean triads?

(i) **{5, 12, 13}**

$$13^2 = 169$$
$$5^2 + 12^2 = 169$$

Yes, this is a Pythagorean triad.

(ii) **{6, 8, 9}**

$$9^2 = 81$$
$$6^2 + 8^2 = 100$$

No, this is NOT a Pythagorean triad.

(iii) **{8, 15, 17}**

$$17^2 = 289$$
$$8^2 + 15^2 = 289$$

Yes, this is a Pythagorean triad.