

Answer on Question #61000-Physics-Other

In a certain right triangle, the two sides are perpendicular to each other are 5 meters and 7 meters long. What is the length of the third side of the triangle?

Solution

The third side is the hypotenuse, which is not perpendicular to either of the other sides. We use the Pythagorean theorem to find the length of the hypotenuse.

$$c = \sqrt{a^2 + b^2} = \sqrt{5^2 + 7^2} = 8.6 \text{ m.}$$

Answer: 8.6 m.

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