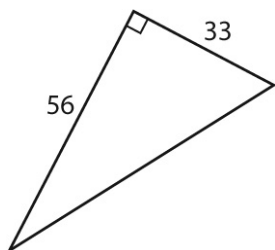


MODULE
12

The Pythagorean Theorem

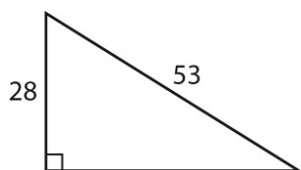
Study Guide

1. What is the length of the hypotenuse of the triangle below?



- A 23 C 65
B 45.2 D 89

2. What is the missing side length in the triangle below? Round to the nearest tenth.



3. Which set of three numbers can be used to make a right triangle?

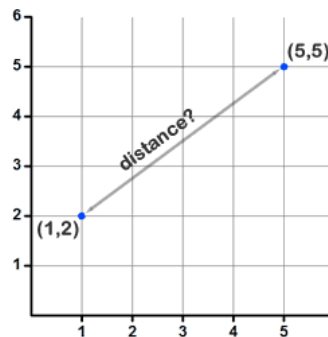
- A 39, 41, 45
B 39, 49, 59
C 39, 69, 99
D 39, 80, 89

4. A right triangle has legs of 15 centimeters and 22 centimeters. What is the length of the hypotenuse to the nearest tenth of a centimeter?

5. What is the distance between (4, 7) and (-2, 8)? Use the distance formula:

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

6. What is the distance between the following 2 points?



7. A diagonal shortcut across an empty rectangular lot is 97 feet. The lot is 72 feet long. What is the width of the lot?

- A 65 feet C 120.8 feet
B 84.5 feet D 169 feet