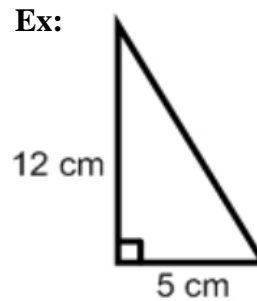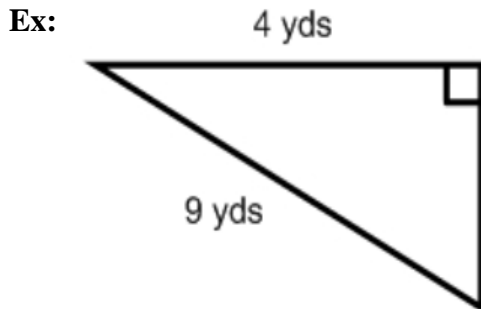# Pythagorean Theorem
Study Guide

11.4: Apply the Pythagorean Theorem

  - Be able to use the Pythagorean Theorem to find missing sides of right triangles

Ex: $a = 30, b = 40$ **Ex:** A leg: 15; Hypotenuse: 25

Ex: 4 yds   **Ex:**

      9 yds   12 cm

                     5 cm

  - **Be able to use the Pythagorean Theorem to decide if three sides could form a right triangle**

Ex: 9, 15, 20   **Ex:** 12, 72, 71

- **Use Pythagorean Theorem to solve real-world problems**

Ex: The playing bed of a pool table is in the shape of a rectangle, which measures 154 inches by 20 inches. What is the length of the diagonal of the table? Round your answer to the nearest inch.

20 in

154 in