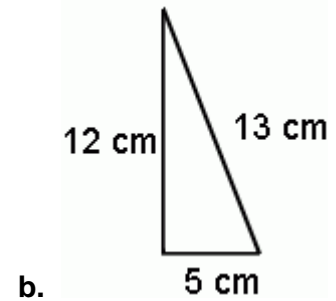
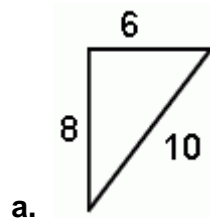


# Pythagorean Theorem

1. These are right triangles. Write the equation according to Pythagorean theorem and check that it is true.



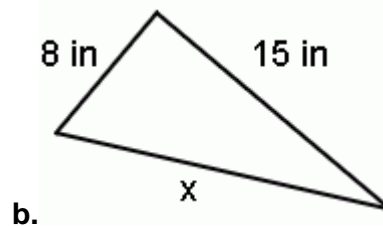
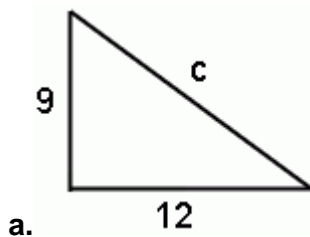
2. The three sides of a triangle are given. Use the Pythagorean theorem to check if the triangle is right.

a. 10, 12, 15

b. 9, 11, 5

c. 12, 16, 20.

3. Find the length of the hypotenuse for these right triangles.



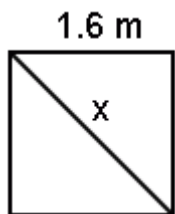
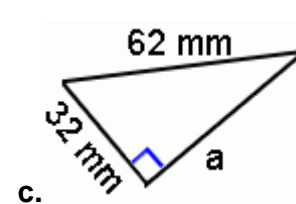
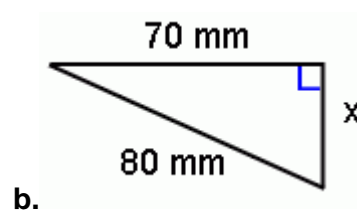
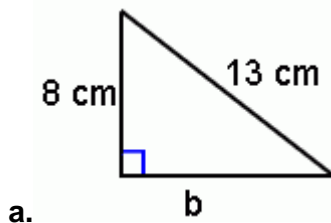
4. Find the length of the hypotenuse when the two other sides of a right triangle are given.

a. 11 cm and 15 cm

b. 24 in and 30 in

c. 5.4 m and 3.9 m

5. Find the missing side length of these right triangles.



6. Find the diagonal of the square on the left.

7. A park is 90 m x 90 m square.  
How long is a diagonal across the park?