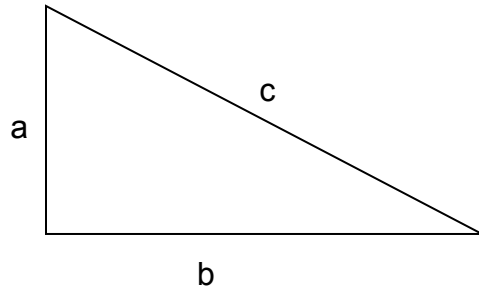


## COSC 1336 – Programming Fundamentals I

### Program 3 – Library Functions

The Pythagorean Theorem, also called the Pythagorean Property, states that the sum of the squares of the lengths of the sides of any right triangle is equal to the square of the length of the hypotenuse as shown in the diagram below,  $a^2 + b^2 = c^2$ .



Write a program, using the math library function *math.sqrt*, to calculate and print the hypotenuse of any right triangle given the sides, *a* and *b*. Test your program with the following data:

**Run 1: a = 3  
b = 4**

**Run 2: a = 5  
b = 12**

Turn in the following:

1. A hardcopy of your source code (Program3.py)
2. A hardcopy of your output