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| --- | --- | --- | --- | --- | --- |
| **LEARNING PROFILE FOR ASSIGNMENT#\_1\_\_\_\_\_ AND QUESTION#\_6\_\_\_\_\_\_\_** | | | | | |
| *Name* | *:* | *Steven Morrissey* | *Due Date* | *:* |  |
| *Student ID* | *:* | *3300222* | *Submission Date* | *:* |  |

**1. Problem Statement:**

I. Given the right triangles described below, write a program to compute the lengths of the remaining sides using a program. a. a = 48 and c = 80

b. a = 84 and c = 91

II. Determine if the following triangles are right-angled triangles: a. a = 45, b = 55, and c = 75

b. a = 28, b = 45, and c = 53

**2. Description of the Code:**

Used Java Math library functions to do calculations according to Pythagorean theorem. Calculated the B sides for part 1 in the main method, and used the isRightTriangle() method to do the calculation for right triangle.

**3. Errors and Warnings:**

Table 1: List of Errors and Warnings Encountered in the Program

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Errors / Warnings** | **Details** | **How I solved them** |
| 1 | none |  |  |
| 2 |  |  |  |
| 3 |  |  |  |
| 4 |  |  |  |
| 5 |  |  |  |

**4. Sample Input and Output:**

**Question 1.a) b = 64 Question 1.b) b = 35 Question 2.a) false Question 2.b) true**

**5. Discussion:**

**I had a bit of trouble deciding where to put the calculation logic, but as the getters should return the values for the respective fields, I concluded that it should be done in the main method. There were no set methods in the API as well, which also led me to believe that I should do the right triangle calculation in the isRightTriangle method.**