



My Workspace **FH CIS 027A 2810 KO F09** FH CIS 027B 2412 KO W10 FH CIS 027C 41649 KO
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users present:

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Working on Assignment

hw 5 - Triangle Methods

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(worth 20 points)

Homework 5 Triangle Static Methods

This project will contain two classes: MyTriangle and MyTriangleTest

MyTriangle

First create the class called MyTriangle containing the following two static methods

```
/**
 * Determines if the three given values can form a triangle
 * @param s1 the first value
 * @param s2 the second value
 * @param s3 the third value
 * @return true if the three values can form a valid triangle
 */
public static boolean isValid(double s1, double s2, double s3)

/**
 * Gets the area of a triangle with the given sides
 * @param s1 the first value
 * @param s2 the second value
 * @param s3 the third value
 * @return the area of the triangle with the given sides
 *         or zero if the values do not form a valid triangle
 */
public static double area(double s1, double s2, double s3)
```

Area of a triangle

The following formula can be used to calculate the area of a triangle given the three sides

$$s = (side1 + side2 + side3) / 2$$

$$area = \sqrt{s(s - side1)(s - side2)(s - side3)}$$

Note: The area() method should return 0 if the sides do not form a valid triangle.

Important: Do not print from the methods **isValid()** or **area()** in **MyTriangle**. Only print from the main method in **MyTriangleTest** or a method it calls for the purpose of printing.

MyTriangleTest

MyTriangleTest will call the methods of the MyTriangle class and demonstrate that they work. Be sure to show at least two tests: one where the three numbers are a triangle and one where they are not. You do not need to ask the user for input. You can just "hard-code" values into your test program.

Upload the program with the output and click Finish. See Assignment Submission for details.

Click on "Browse" to locate your file and then click "Upload" to upload your file.

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