

QUESTION 1: THE FOLLOWING IS A PROBLEM STATEMENT:

Develop a program that calculates the area of a circle.

The program should prompt the user for the radius.

Assume the user enters a value of 5.0.

The program should calculate the area of the circle.

The program should output the area of the circle.

Write the program in C++.

Include the necessary headers and namespace declarations.

Use the constant value of 3.14159 for the value of pi.

The program should output the area of the circle with two decimal places.

Enter the radius: 5.0	5.0
Area of the circle: 78.54	78.54
Enter the radius: 10.0	10.0
Area of the circle: 314.16	314.16
Enter the radius: 15.0	15.0
Area of the circle: 706.86	706.86
Enter the radius: 20.0	20.0
Area of the circle: 1256.64	1256.64

The program should output the area of the circle with two decimal places.

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