

# Assignment 7

Due 4 November 7:59am

In this assignment “write and test” means to write a program which implements the given function as well as a `main()` which calls that function and tests it and prints some output. It is your choice for this assignment to have either one or two source files.

## 1 Problem 1

**More geometry** Write and test the following `evalCircle()` function that computes the area and the circumference of a circle of given radius. Have the radius be input by the user.

```
void evalCircle (double rad, double& area, double& circ)
```

## 2 Problem 2

**Even more geometry** Write and test the following `evalRectangle()` function that computes the area `area` and the perimeter `per` of a rectangle with given width and height. Have these width and height values be input by the user.

```
void evalRectangle(double w, double h, double& area, double& per)
```

## 3 Bonus: 10pts

**Explain** The following code

```
#include <iostream>
using namespace std;
int main(){
    int x=7;
    cout << x << " " << &x << endl;
}
```

produces this output

7 0x7fff5ec1bb1c

Write a short summary explaining this program and its output.

*Hint: Why is the output different on your computer? Is it the same every time you run the program? Why or why not?*