

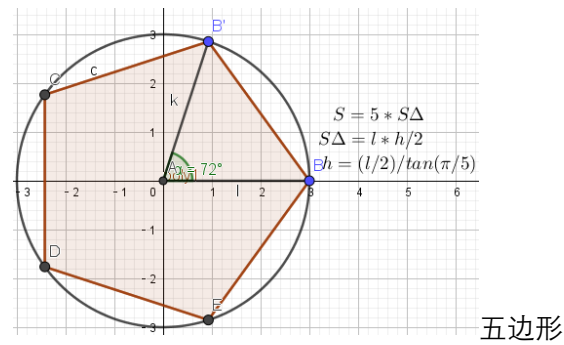
模型部分：

周长=边长\*边数（圆=2pi\*r）

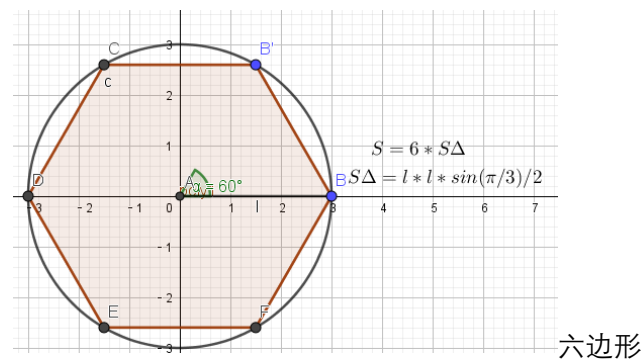
面积：

$$S_{\Delta} = l * l * \sin(\pi/3) / 2$$
 三角形

$$S = l * l$$
 正方形



五边形



六边形

$$S = \pi * r * r$$
 圆

验证部分：

单元测试：5 组数据集，每组测试一个模块，每组 5 个数据，（来源：wolfram alpha），在 data.txt 文件里

测试方式：test.cpp 自动测试，当计算数据和测试数据差距在千分之一以内就认为正确（网上扒的数据保留有效数字不够多，有误差）

The area of the regular hexagon is 15006.5  
The perimeter of the regular hexagon is 456  
The output perimeter is 456, the right answer is 456  
The output area is 15006.5, the right answer is 15006.5  
Right Answer  
The area of the circle is 31415.9  
The perimeter of the circle is 628.319  
The output perimeter is 628.319, the right answer is 628.319  
The output area is 31415.9, the right answer is 31415.9  
Right Answer  
The area of the circle is 12.5664  
The perimeter of the circle is 12.5664  
The output perimeter is 12.5664, the right answer is 12.5664  
The output area is 12.5664, the right answer is 12.5664  
Right Answer  
The area of the circle is 6.17513e+06  
The perimeter of the circle is 8809.03  
The output perimeter is 8809.03, the right answer is 8809.03  
The output area is 6.17513e+06, the right answer is 6.17513e+06  
Right Answer  
The area of the circle is 1.06046e+11  
The perimeter of the circle is 1.15439e+06  
The output perimeter is 1.15439e+06, the right answer is 1.15439e+06  
The output area is 1.06046e+11, the right answer is 1.06046e+11  
Right Answer  
The area of the circle is 18145.8  
The perimeter of the circle is 477.522  
The output perimeter is 477.522, the right answer is 477.522  
The output area is 18145.8, the right answer is 18145.8  
Right Answer

The area of the regular triangle is 4330.13  
The perimeter of the regular triangle is 300  
The output perimeter is 300, the right answer is 300  
The output area is 4330.13, the right answer is 4330.13  
Right Answer  
The area of the regular triangle is 1.73205  
The perimeter of the regular triangle is 6  
The output perimeter is 6, the right answer is 6  
The output area is 1.73205, the right answer is 1.73205  
Right Answer  
The area of the regular triangle is 851132  
The perimeter of the regular triangle is 4206  
The output perimeter is 4206, the right answer is 4206  
The output area is 851132, the right answer is 851131  
Right Answer  
The area of the regular triangle is 1.46166e+10  
The perimeter of the regular triangle is 551181  
The output perimeter is 551181, the right answer is 551181  
The output area is 1.46166e+10, the right answer is 1.46166e+10  
Right Answer  
The area of the regular triangle is 2501.08  
The perimeter of the regular triangle is 228  
The output perimeter is 228, the right answer is 228  
The output area is 2501.08, the right answer is 2501.08  
Right Answer  
The area of the regular rectangle is 10000  
The perimeter of the regular rectangle is 400  
The output perimeter is 400, the right answer is 400  
The output area is 10000, the right answer is 10000  
Right Answer  
The area of the regular rectangle is 4  
The perimeter of the regular rectangle is 8  
The output perimeter is 8, the right answer is 8  
The output area is 4, the right answer is 4  
Right Answer  
The area of the regular rectangle is 1.9656e+06  
The perimeter of the regular rectangle is 5608  
The output perimeter is 5608, the right answer is 5608  
The output area is 1.9656e+06, the right answer is 1.9656e+06  
Right Answer  
The area of the regular rectangle is 3.37556e+10  
The perimeter of the regular rectangle is 734908  
The output perimeter is 734908, the right answer is 734908  
The output area is 3.37556e+10, the right answer is 3.37556e+10  
Right Answer  
The area of the regular rectangle is 5776  
The perimeter of the regular rectangle is 304  
The output perimeter is 304, the right answer is 304  
The output area is 5776, the right answer is 5776  
Right Answer

The area of the regular pantagon is 17204.8  
The perimeter of the regular pantagon is 500  
The output perimeter is 500, the right answer is 500  
The output area is 17204.8, the right answer is 17204.8  
Right Answer  
The area of the regular pantagon is 6.88191  
The perimeter of the regular pantagon is 10  
The output perimeter is 10, the right answer is 10  
The output area is 6.88191, the right answer is 6.88191  
Right Answer  
The area of the regular pantagon is 3.38178e+06  
The perimeter of the regular pantagon is 7010  
The output perimeter is 7010, the right answer is 7010  
The output area is 3.38178e+06, the right answer is 3.38178e+06  
Right Answer  
The area of the regular pantagon is 5.80757e+10  
The perimeter of the regular pantagon is 918635  
The output perimeter is 918635, the right answer is 918635  
The output area is 5.80757e+10, the right answer is 5.80758e+10  
Right Answer  
The area of the regular pantagon is 9937.47  
The perimeter of the regular pantagon is 380  
The output perimeter is 380, the right answer is 380  
The output area is 9937.47, the right answer is 9937.48  
Right Answer  
The area of the regular hexagon is 25980.8  
The perimeter of the regular hexagon is 600  
The output perimeter is 600, the right answer is 600  
The output area is 25980.8, the right answer is 25980.8  
Right Answer  
The area of the regular hexagon is 10.3923  
The perimeter of the regular hexagon is 12  
The output perimeter is 12, the right answer is 12  
The output area is 10.3923, the right answer is 10.3923  
Right Answer  
The area of the regular hexagon is 5.10679e+06  
The perimeter of the regular hexagon is 8412  
The output perimeter is 8412, the right answer is 8412  
The output area is 5.10679e+06, the right answer is 5.10679e+06  
Right Answer  
The area of the regular hexagon is 8.76997e+10  
The perimeter of the regular hexagon is 1.10236e+06  
The output perimeter is 1.10236e+06, the right answer is 1.10236e+06  
The output area is 8.76997e+10, the right answer is 8.76996e+10  
Right Answer  
The area of the regular hexagon is 15006.5  
The perimeter of the regular hexagon is 456  
The output perimeter is 456, the right answer is 456