Abstraction_Lab5

May 9, 2020

In [ ]:
```cpp
#include <cassert>
#include <cmath>
#include <stdexcept>
#include <iostream>
using std::cout;

class Sphere {
 public:
  static float Volume(int radius){
    if (radius <= 0){
      throw std::invalid_argument("radius must be positive");
    }
    else{
      return M_PI * 4 / 3 * pow(radius, 3);
    }
  }
};

// Test
int main(void) {
  assert(abs(Sphere::Volume(5) - 523.6) < 1);
  cout<<Sphere::Volume(5)<<"\n";
}
```

Compile & Run

Explain
Loading terminal (id_v3vkz0t), please wait...