```
2 // COS30008, Tutorial 2, 2022
4 #include "Polygon.h"
6 #include <stdexcept>
7
8 using namespace std;
9
10
11 float Polygon::getSignedArea() const
12 {
13
       double leftSum = 0.0;
14
       double rightSum = 0.0;
15
16
       for (int i = 0; i < fNumberOfVertices; ++i) {</pre>
            int j = (i + 1) % fNumberOfVertices;
17
            leftSum += fVertices[i].getX() * fVertices[j].getY();
18
19
           rightSum += fVertices[j].getX() * fVertices[i].getY();
20
       }
21
22
       return 0.5 * abs(leftSum - rightSum);
23 }
24
```