

```
1 ! Question 4
2
3 ! Leia três números que representam os lados de
4 ! um triângulo qualquer, calcule a área do triângulo e
5 ! apresente o resultado.
6
7 program question4
8   implicit none
9   real :: side1
10  real :: side2
11  real :: side3
12  real :: area
13  real :: perimeter
14
15  print *, 'Type the length of triangle side 1'
16  read *, side1
17
18  print *, 'Type the length of triangle side 2'
19  read *, side2
20
21  print *, 'Type the length of triangle side 3'
22  read *, side3
23
24  perimeter = (side1+side2+side3)/2
25
26  ! Heron Formula
27  area = sqrt(perimeter*(perimeter-side1)*(perimeter-side2)*(perimeter-side3))
28  print *, 'The triangle area: ', area
29 end program question4
```