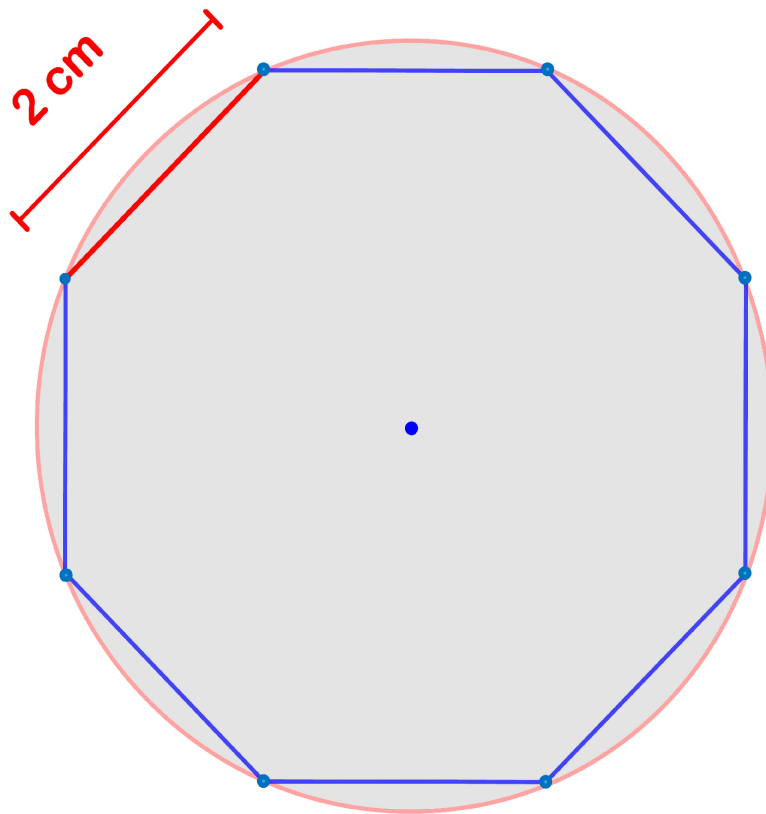


Problem H. Circle of Polygon

Time limit 1000 ms
Mem limit 262144 kB
OS Windows

A **circumscribed circle** of a polygon is the circle that passes through all the vertices of that polygon.

Let's assume we have a **regular** polygon, we want to find the area of the circumscribed circle around this polygon. Given the number of vertices and the side length of the polygon, can you find the circle's area?



Input

The only line contains 2 integers , V ($3 \leq V \leq 359$) the number of vertices of the polygon and S ($1 \leq S \leq 10^9$)

Output

Find the area of the resulting circumscribed circle. Your answer will be considered correct if its absolute or relative error does not exceed 10^{-6} .

Namely: let's assume that your answer is a , and the answer of the jury is b . The checker program will consider your answer correct, if $\frac{|a-b|}{\max(1,b)} \leq 10^{-6}$.

Sample 1

Input	Output
8 2	21.452136491

Note

The octagon in the picture illustrates the first example.