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Rules & Regulations

Problem: Cliff and Radar

Two cliffs of lengths X and Y join at one end and enclose a body of water. The angle between the cliffs, phi, is known. A radar is installed at the point where the cliffs are joined. It has a range of m where m < X and m < Y. Calculate the area of the water enclosed between the cliffs which cannot be scanned by the radar and the distance between the end points of two cliffs.

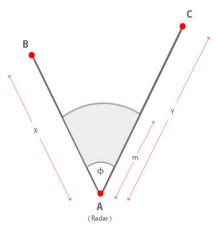


Fig:Cliff and Radar

Input Format:

First line contains length of cliff AB, denoted by X in meters Second line contains length of cliff AC, denoted by Y in meters Third line contains range of radar, denoted by m in meters Fourth line contains angle BAC in degrees, denoted by Φ (phi)

Output Format:

On first line, print the area enclosed between the cliffs that cannot be scanned by the radar in square meters On second line, print the distance between end points of two cliffs in meters

Constraints:

X > 0

Y > 0

0 < m < X and 0 < m < Y

 Φ (phi) > 0

Calculations should be done upto 11-digit precision, but output values should be printed upto 5 decimal places

Sample Input and Output

SNo.	Input	Output
1	5000 8000 3000 45	10607843.88851 5694.86238
2	500 400 50	85293.54344 458.25757

	60	
3		302113.00799 1000.00000

Note:

Please do not use package and namespace in your code. For object oriented languages your code should be written in one

Note:

Participants submitting solutions in C language should not use functions from <conio.h> / <process.h> as these files do not exist in gcc

For C and C++, return type of main() function should be int.

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Submit Answer

I, CHANDRAMANI ADIL confirm that the answer submitted is my own.





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