Problem A

Dig A Fish Pond

Time limit: 1 second
Memory: 1024 megabytes

Problem Description

An's family farm is a rectangular piece of land with dimensions' **m × n**. An's father plans to dig a circular fish pond with radius **r** completely within the farm. Note, using $\pi = 3,14$.

Requirement: Determine if An's father can dig the pond as planned. If possible, calculate the remaining area of the farm after the pond is dug.

Input:

- Three positive integers **m**, **n**, and **r** (each less than $\mathbf{10^9}$).

Output:

- If it is possible to dig the pond, print the remaining area of the farm with two decimal places of precision. If not, print **-1**.

Example:

INPUT	OUTPUT
3 3 1	5.86