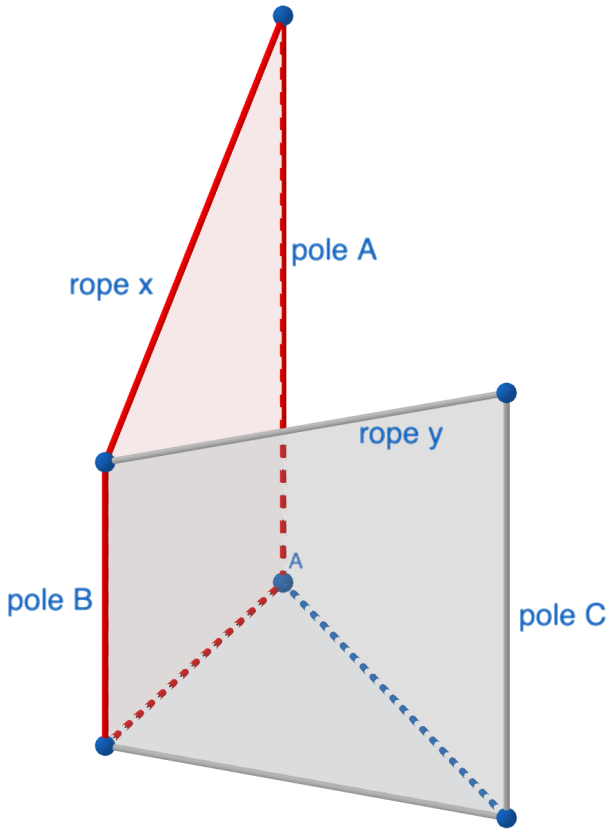


# Weird Construction

Vieri Corp, a technology company, has requested Bima, a constructor, to build an isosceles triangle on their brand new field. On each vertex of the triangle, they requested a pole **A**, **B** and **C** where  $AB = BC$ . It is **guaranteed that B** is the shortest pole. They also requested a rope of length **x** and **y** to connect the tip of the poles **AB** and **BC** respectively. Given the height of pole **A**, **C** and the length of rope **x** and **y** help Bima calculate the the height of pole **B**. **You should minimize B**. I've decreased the constraints so don't worry about precision error :) It is guaranteed that there will be an answer. The ropes cannot be loose. The pole's diameter is negligible.

Refer to the image below for better understanding.



## Input Format

A C x y

## Output Format

The height of pole **B** correct to 3 decimal places.

## Sample Input 1

10 20 10 18.973665961

## Sample Output 1

2.000000

## Sample Input 2

10 7 8.5 6.0207972894

## Sample Output 2

2.500

## Constraints

- $1 \leq A \leq 500000$
- $1 \leq C \leq 500000$
- $1 \leq x \leq 500000$
- $1 \leq y \leq 500000$