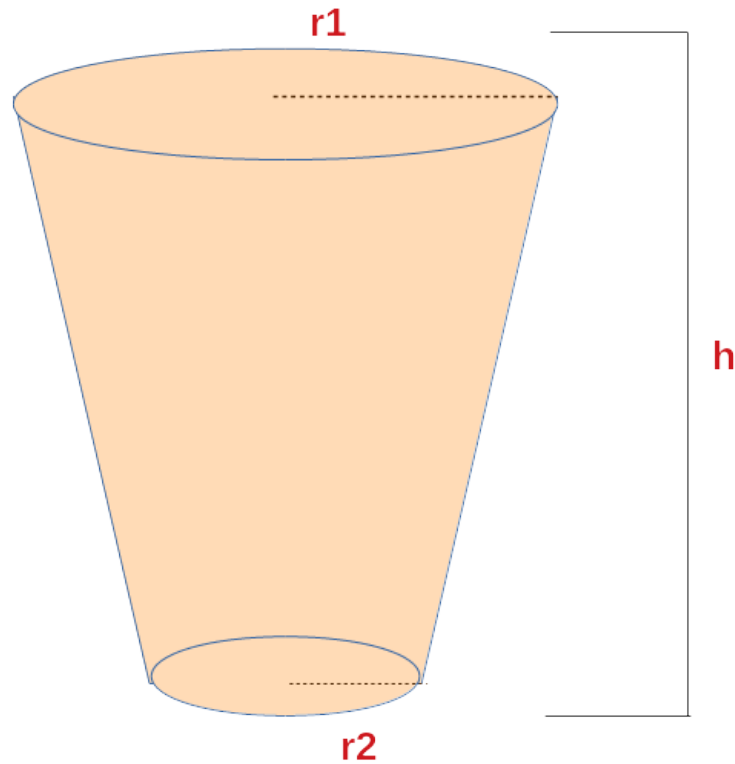


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## Can you measure water?

Input file:           standard input  
Output file:         standard output  
Time limit:          1 second  
Memory limit:       256 megabytes

Look at this glass:



From this we get  $r1$ ,  $r2$  and  $h$ . Can you measure - with how much water it can be filled?

[Note: If you use pi, use 3.14159]

### Input

You'll be given  $r1$ ,  $r2$ , and  $h$  such that  $(1 \leq r2 \leq r1 \leq 100)$  and  $(1 \leq h \leq 100)$

### Output

You have to print the result till  $10^{-3}$ .

### Scoring

For 20 points:  $r1=r2$

For 80 points: Main Constraints

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## Examples

standard input	standard output
5 3 4	205.251
5 2 3	122.522
10 5 7	1282.816