

DMOPC '14 Contest 5 P1 - Core Drill

Time limit: 2.0s **Memory limit:** 64M

Simon got a new drill recently. Everyone knows that a drill is shaped like a right circular cone. Simon knows his drill has radius r and height h . But now he wants to calculate the volume. Write a program to help Simon!

Input Specification

The first line of input will have an integer r ($1 \leq r \leq 100$).

The second line of input will have an integer h ($1 \leq h \leq 100$).

Output Specification

The first line of output should have the volume of Simon's drill. The output will be accepted if it's within an absolute or relative error of 10^{-2} .

Sample Input

```
3
5
```

Sample Output

```
47.12
```

Hint

V is the volume of the right circular cone with radius r and height h .

$$V = \frac{\pi r^2 h}{3}$$