

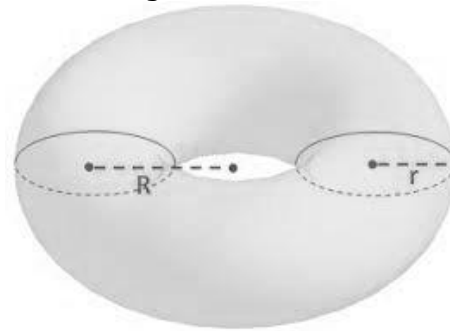
## 5 Filling doughnuts

3 points

### Introduction

Your new job as a bakery assistant presents a new challenge. The baker has created a new doughnut filled with banana cream. You must provide him a program to calculate the exact volume of cream needed per doughnut.

The interior volume of a torus is close to a doughnut and its volume can be calculated with this formula:



$$V = 2\pi^2 R r^2$$

Where R is the distance from the center of the tube to the center of the torus and r is the radius of the tube. Consider the  $\pi$  value as 3.14.



**HINT:** Considering that you are going to play with real numbers use as much precision as you can.

### Input

The input will be a pair of values expressed as a positive integers representing R and r in millimeters respectively.

38

16

### Output

The program must output the volume of cream in cubic millimeters with a resolution of 2 decimals.

191828.38 cubic millimeters are needed

