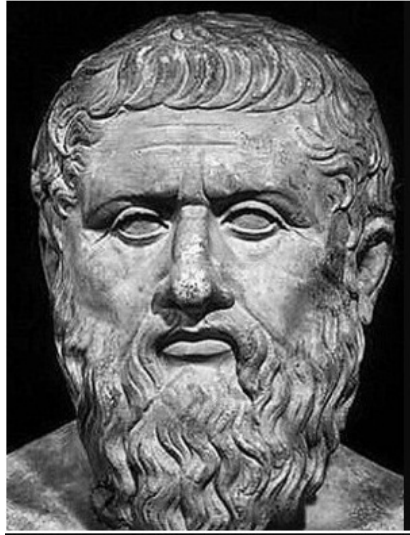
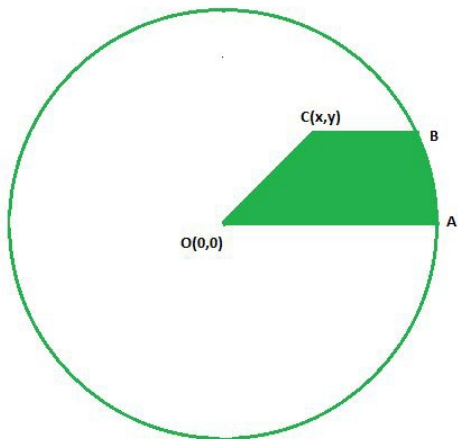


# Goni the Geometrician

Recently, Goni read a book by Plato. Inspired by Plato's life, he decided to invent a theorem related to geometry. While attempting to prove his own theorem, he encountered a problem and needs help to solve it.



Here the center of this circle is  $O(0,0)$ .  $OA$  lies on  $X$  axis. And  $CB \parallel OA$ . You have to find the area of **ABCO**.

**INPUT:** The first line contains two integers  $x,y$ , denoted the coordinate of  $C(x,y)$ .

The next line contain one integer  $r$ . denoted the radius of this circle.

**OUTPUT :** Print the area of **ABCO**. The value calculated must be presented with 3 digits after the decimal point.

Sample input:

1 1

2

Sample output:

1.047

Sample input:

3 8

25

Sample output:

**101.790**