

# ASSIGNMENT-7

SENANI SADHU

January 23, 2021

**1 Draw a circle of radius 3 and any two of its diameters. Draw the ends of these diameters. What figure do you get?**

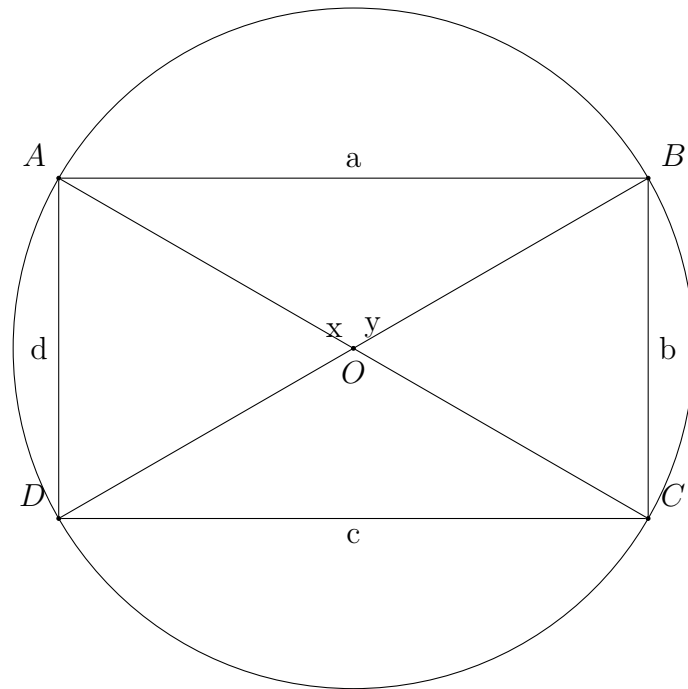
**1.1 Solution:-**

Given a circle with radius 3, also having its centre as O.

Let AC and BD be two diameters of this circle. When we join the ends of these diameters, a quadrilateral ABCD is formed. As we know that the diameters of a circle are equal in length, therefore, the quadrilateral so formed will have its diagonals of equal length. Also,  $OA=OB=OC=OD$  radius  $r=3$  and if a quadrilateral has its diagonals of same length which are bisecting each other, then it will be a rectangle.

$a=b=c=d$ (Sides of circle.)

$x=y=6$ (Diameter of circle.)



**1.2 Output of Python Code:-**

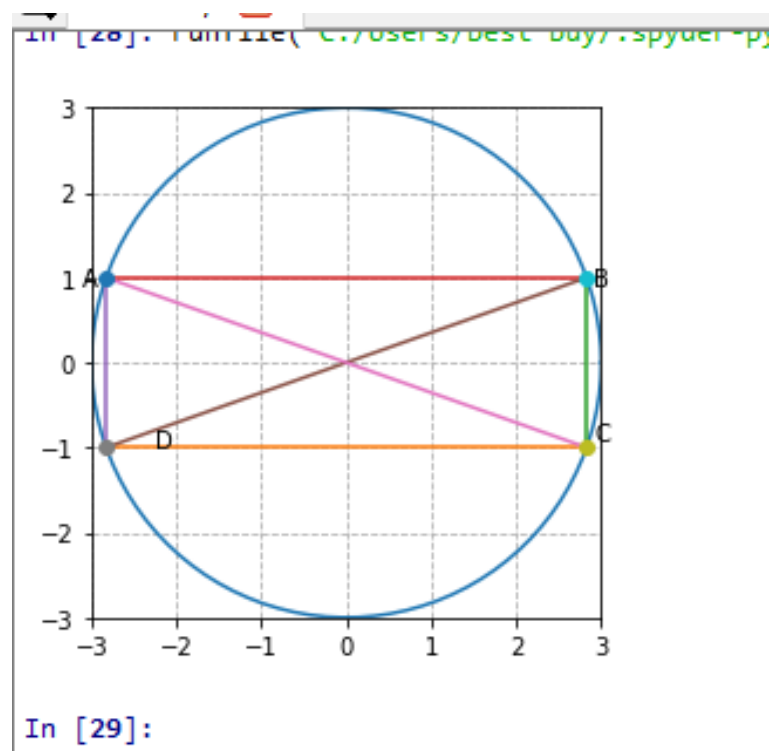


Figure 1: Fig generated using python