

ASSIGNMENT-7

SENANI SADHU

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

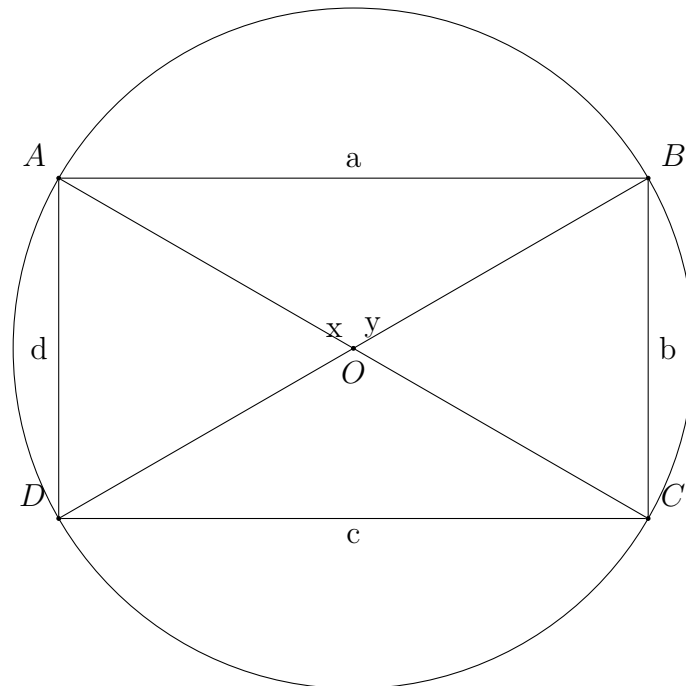
1.1 Solution:-

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.

$a=c$ and $b=d$ where a,b,c,d are sides of rectangle.

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



1.2 Output of Python Code:-

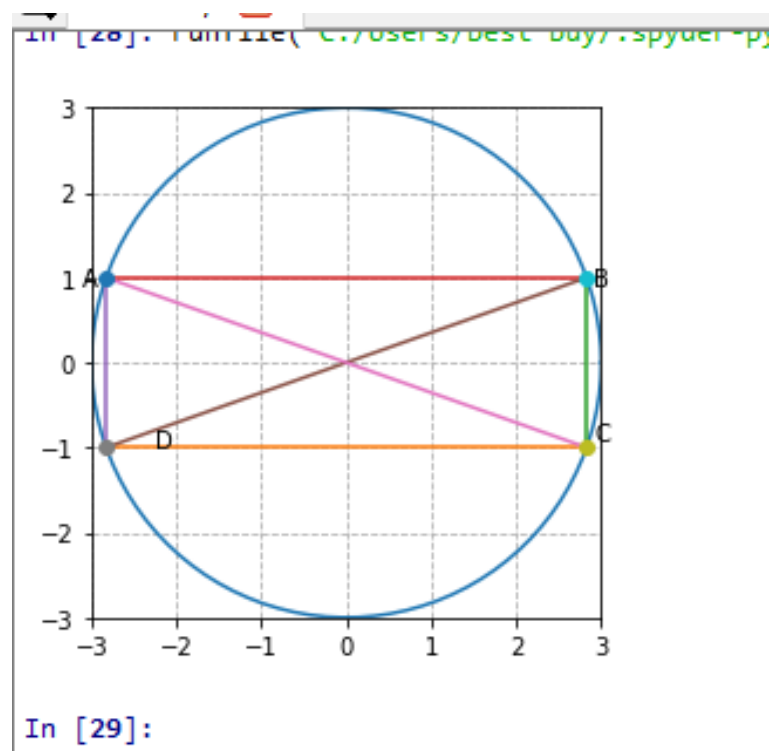


Figure 1: Fig generated using python