WANDOOR GANITHAM - S S L C UNIT TEST 2021

5.06BE

COORDINATES

Total Score : 20 Time : 40 minutes

1. Write down the coordinates of the points A and B from the figure .



2. a) What is the x –coordinate of any point on the y axis ?

- b) Write down the coordinates of a point on a line parallel to the *y*-axis passing through the point (5,3)?
- 3. In the figure the sides of the rectangle PQRS are parallel to the axes .
 - a) Write down the coordinates of P ?
 - b) Write down the coordinates of R?
- 4. A circle of radius 10 is drawn with origin as centre.
 - a) Write down the coordinates of a point at which the circle cuts the x -axis ?
 - b) Write down the coordinates of a point at which the circle cuts the y-axis ?
 - c) If (m, n) is a point on this circle, prove that $m^2 + n^2 = 100$? (3)



- 5. In the figure OABC is a rectangle . Coordinates of the vertex A are (5,0) . < AOB = 60°
 a) What is the length of OA ?
 - b) Write down the coordinates of **B**?
 - c) Write down the coordinates of C ?



(4)

6. The coor4dinates of the vertices of the triangle ABC are ABC A(1,3), , B(6,2) and

C (4,5)

a) What is the length of AB ?

- b) What is the length of BC ?
- c) Prove that ABC is an isosceles triangle ?
- 7. a) Draw the coordinate axes and mark the following points .

A (2, 4), B (-1, 3), C (-1, -1), D (2, -3)?

b) What is the most suitable name of the quadrilateral ABCD ? (4)