

WANDOOR GANITHAM - S S L C UNIT TEST 2021

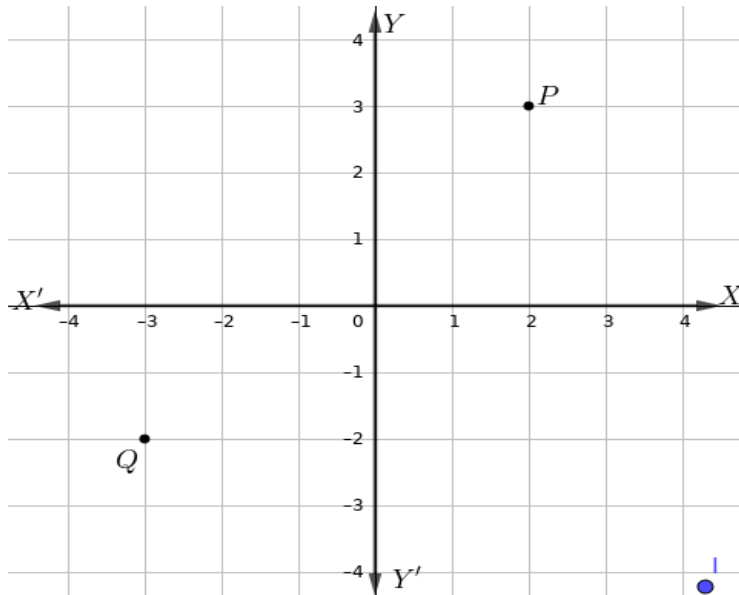
5.06AE

COORDINATES

Total Score : 20

Time : 40 minutes

1. Write down the coordinates of the points P and Q shown in the figure .



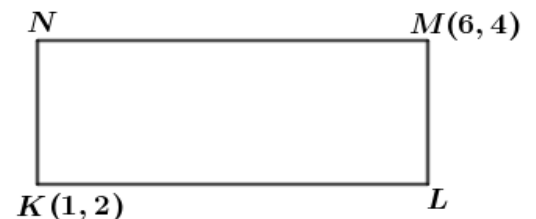
(2)

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

b) Write down the coordinates of a point on a line parallel to the x -axis passing through the point $(7, 6)$?

(2)

3. In the figure the sides of the rectangle KLMN are parallel to the axes



a) Write down the coordinates of N ?

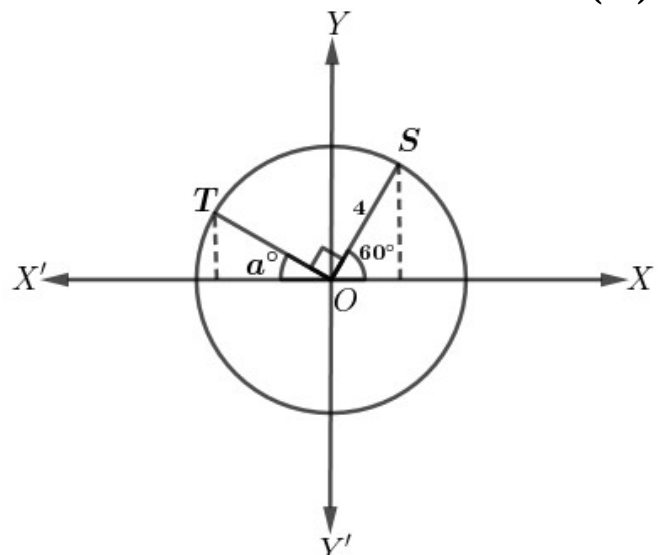
b) Write down the coordinates of L ?

(2)

4. In the figure origin is the centre of the circle

and S, T are two points on the circle .

The radii OT and OS are perpendicular to each other .



a) What is the value of a ?

b) Write down the coordinates of S ?

c) Write down the coordinates of T ?

(3)

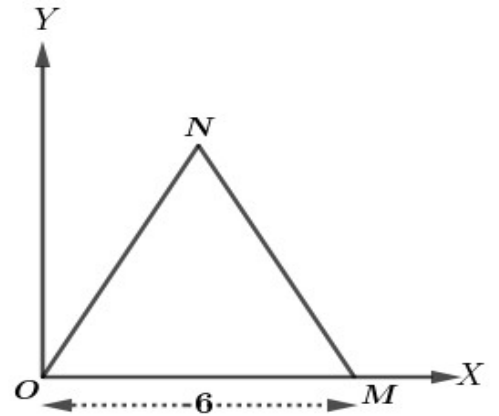
5. In the figure OMN is an equilateral triangle .

One side of the triangle is 6 units .

a) Write down the coordinates of O ?

b) Write down the coordinates of M ?

c) Write down the coordinates of N ?



(3)

6. The coordinates of the triangle ABC are A (3, 2), B (4, 9) and C (6, 3) .

a) What is the length of AB ?

b) What is the length of BC ?

c) Prove that ABC is a right triangle ?

(4)

7. a) Draw the coordinate axes and mark the following points .

A (5, 3) , B (-1, 3) , C (-2, -1) , D (4, -1) ?

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

(4)