Class: 10	Subject: Mathematics	Date: 30-11-2020	WorksheetNo: 57

അധ്യായം: Coordinates

Activity: 1

(5, 2), (5, -3) are the points on a line. Find the coordinates of any two other points on this line.
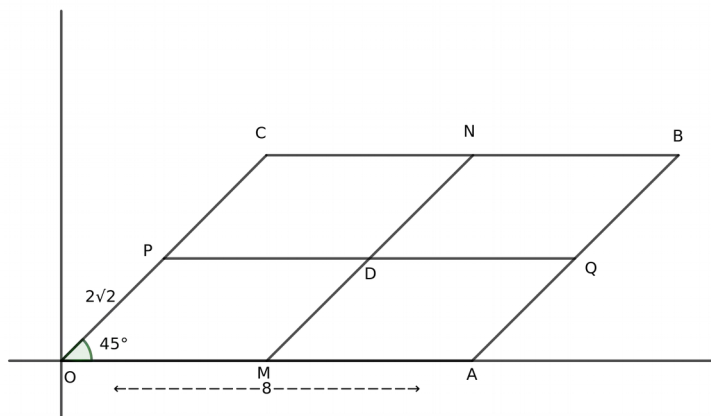
Activity: 2

(2, 0), (0, -2), (0, 5), (2, -3), (5, 3), (-1, 0), (2, 5), (0, 3), (-1, 3), (5, 0)

Among the points given above,

   a) identify the points on the x- axis .

   b) identify the points on the y- axis .

   c) identify the points which are not on any axis .

Activity: 3

In the figure, OABC is a parallelogram. M is the mid point of OA . P is the mid point of OC. PQ is parallel to OA and MN is parallel to OC.
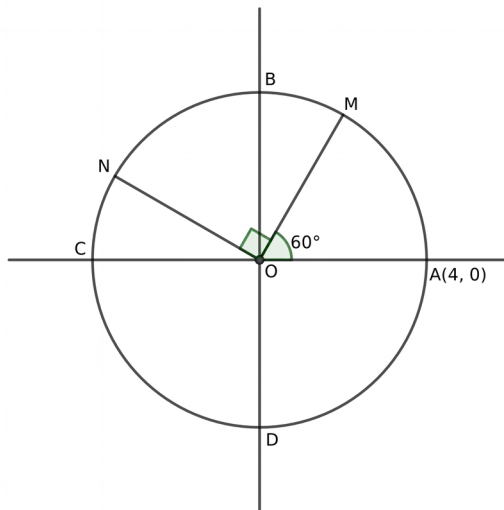
OA=8cm, OP=2√2cm,   ∠AOC = 45˚ . Find the coordinates of the points A,B,C,D,P,Q,M,N.

Activity: 4

  In the picture, the centre "O" of the circle is the origin and A, B,C,D,M,N are points on the circle.   The coordinates of A are (4, 0). If ∠AOM= 60˚ and ON ⊥ OM, find the coordinates of B,C,D,M,N.

Link	QR Code
▶ PLAY	▣

Class:X	Subject:Maths	Date:1/12/2020	Worksheet No:58

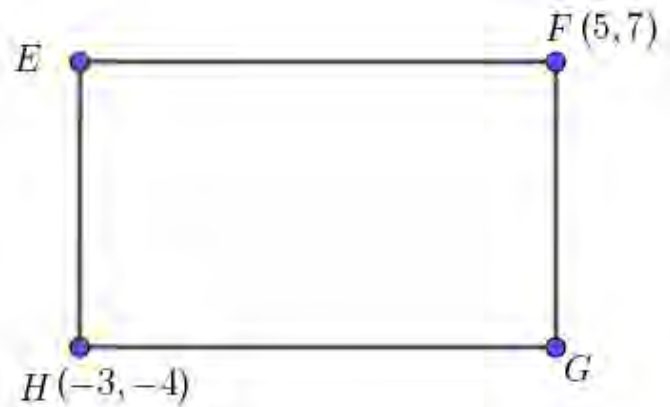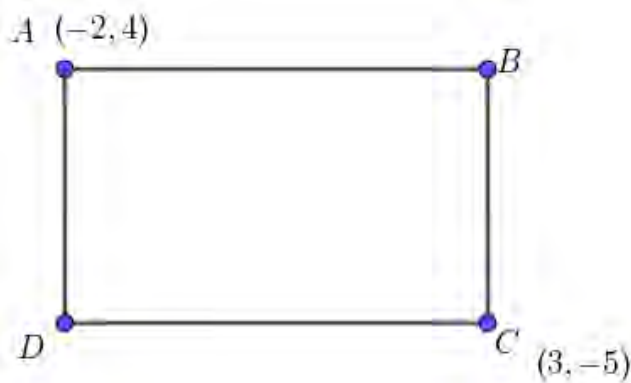## LESSON :Co-ordinates

Activity :1

(a) (3,4) is a point on the line AB parallel to X- axis. Find any two points on AB.
(b) (5,8) is a point on the line CD parallel to Y- axis.Find any two points on CD.
(c) Find the co-ordinates of a point on both lines

Activity :2

Sides of above rectangles are parallel to axes. Find the coordinates of other vertices of the

rectangles.

Activity :3

Without drawing coordinate axes, mark each pair of points below with left-right, top- bottom position correct. Find the other coordinates of the rectangles drawn with these as opposite vertices and sides parallel to the axes.

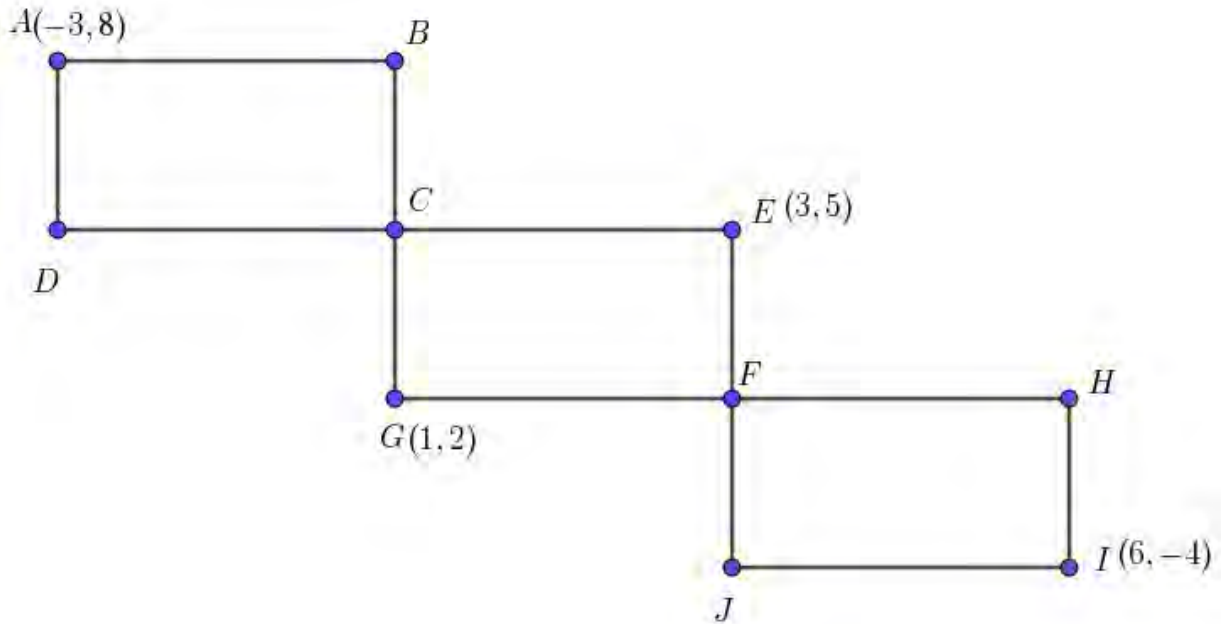(a) (1,2), (7,9)   (b) (3,4), (2,6)   (c) (4,9), (-6,1)   (d) (6,-3), (-4,-5)

Activity :4
In the figure, the sides of the rectangle ABCD ,CEFG and FHIJ are parallel to axes. Find the coordinates of other vertices.

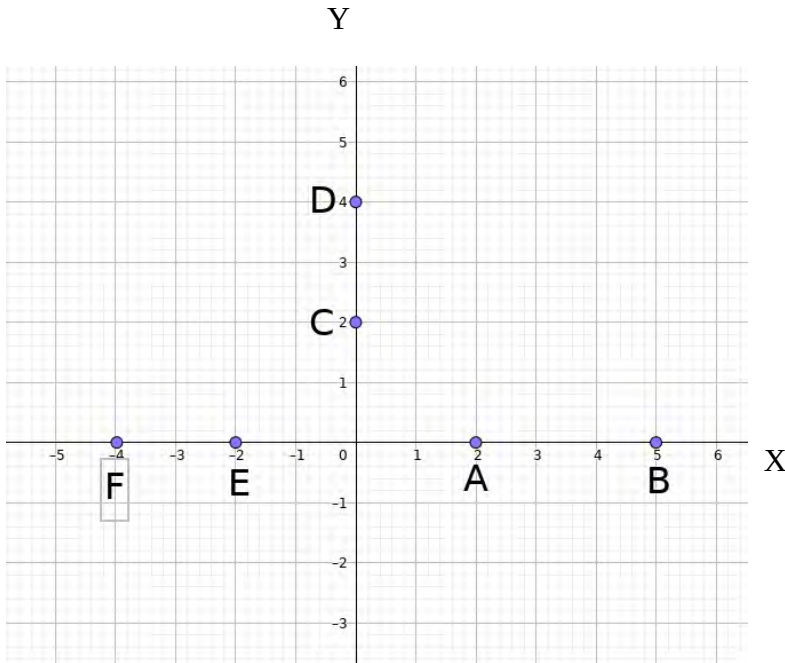| CLASS LINK	QR CODE

| Class:X | Subject:Maths | Date:2/12/2020 | Worksheet No:59 |

Lesson : **Co-ordinates**

Activity 1

Based on the above figure complete the following table

Points	Coordinates	Distance between the points
A,B	(2,0),(5,0)	$\|2- 5\| = \|-3\| = 3$
A,E	.... , ...	....
E,F	.... , ...	....
D,C	.... , ...	....

Activity 2

In the above figure AB & CD are parallel to the X axis and AD & BC are parallel to the Y axis. Also A(2,2), C(6,4).

a) Write the coordinates of B and D.
b)Find the length of the sides AB,BC,CD,DA.
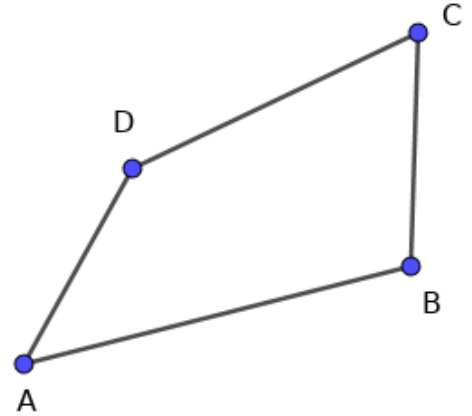c) Find the length of the diagonals AC and BD.

Activity 3

In the figure the coordinates of the vertices of the quadrilateral ABCD are

A(2,0),B(5,2),C(4,5),D(3,3)

a) Find the length of the sides AB,BC,CD,DA.

b) Find the length of the diagonals.

Activity 4

If the vertices of triangle ABC are A(3,1),B(6,1),C(6,4), then

a) find AB,BC,CA

b) find AB^2, BC^2, CA^2

c) what is the relation between $AB^2 + BC^2$ and CA^2

d) which type of triangle is $\triangle$ ABC?

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| Class: 10 | Subject: Mathematics | Date: 03-12-2020 | Worksheet No:60 |

Lesson: Coordinates

1) Find the distance from the origin to the following points.

    a) (-4,3)

    b) (-5,1)

    c) (6,3)

    d) (1,-1)

    e) (0,3)

2) Find the coordinates of the points on the axes which are 6 units away from the origin.

3) a) Find the coordinates of the points where a circle of radius 5 units, centred at origin cuts the axes.

    b) Write the coordinates of 8 points on this circle.

4) A circle is drawn with centre (4,3) and radius 5 units.

    a) Find the coordinates of the point of intersection of the circle with X- axis.

    b) Find the coordinates of the point of intersection of the circle with Y- axis.

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