



# MATHS

## NCERT - NCERT

### MATHEMATICS(GUJRATI ENGLISH)

#### CO-ORDINATE GEOMETRY

#### Example

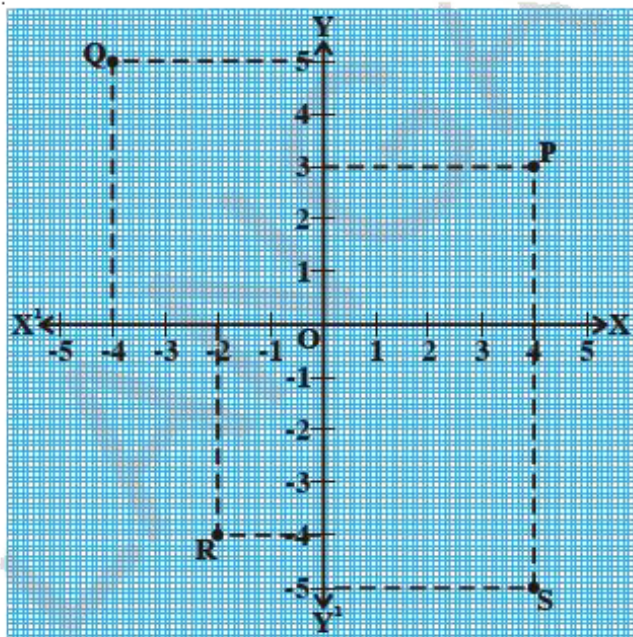
1. State the abscissa and ordinate of the following points and describe the position of

each point (i)  $P(8,8)$  (ii)  $Q(6,-8)$ .



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2. Write the coordinates of the points marked in the graph.

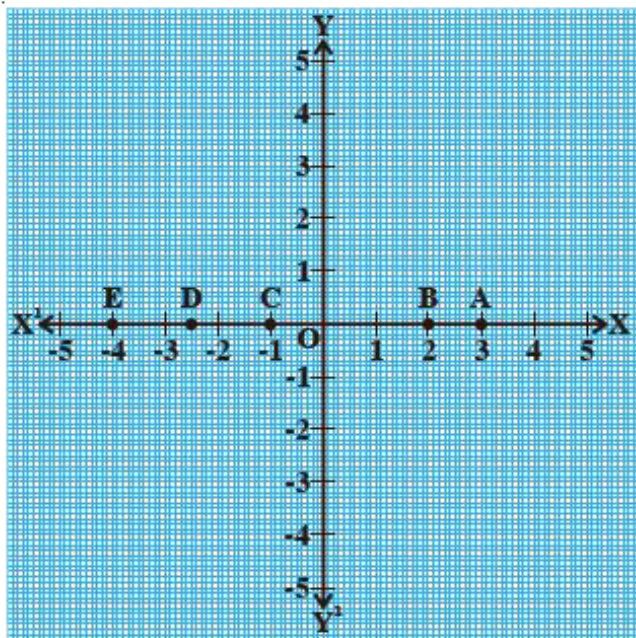




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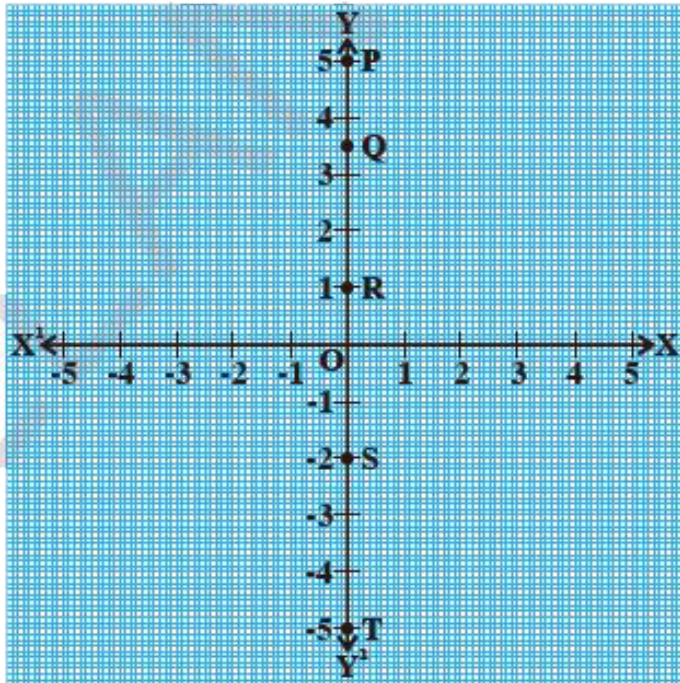
3. Write the coordinates of the points marked

in the graph.



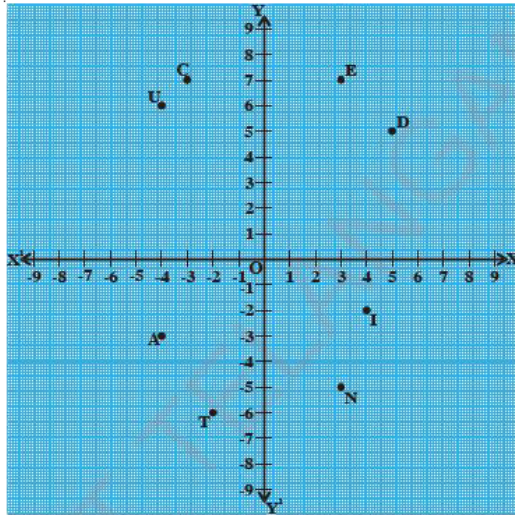
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4. Write the coordinates of the points marked in the graph.



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5. Complete the table based on the following



Point	Abscissa	Ordinate	Co-ordinates	Quadrant	Signs of co-ordinates
E	3	7	E (3,7)	$Q_1$	(+, +)
D	.....	.....	.....	.....	.....
U	-4	6	U (-4,6)	.....	(-, +)
C	.....	.....	.....	.....	.....
A	-4	-3	A (-4, -3)	.....	(-, -)
T	.....	.....	.....	.....	.....
I	4	-2	I (4, -2)	.....	(+, -)
O	.....	.....	.....	.....	.....
N	.....	.....	.....	.....	.....

graph.



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6. Plot the following points on a Cartesian plane.

(i) B(-2,3) (ii) L(5,-8) (iii) U(6,4) (iv) E(-3,-3)



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7. Plot the points T(4,-2) and V(-2,4) on a cartesian plane. Whether these two coordinates locate the same point?



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## Exercise 5 1

1. In a locality, there is a main road along North-South direction.

The map is given below. With the help of the picture answer the following questions.

(i) What is the 3rd object on the left side in street no 3?

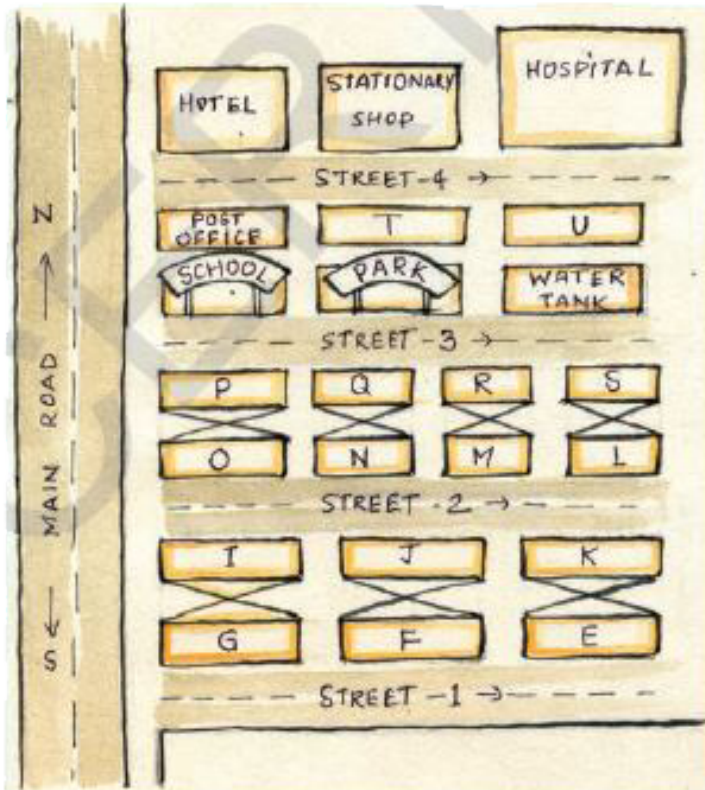
(ii) Find the name of the 2nd house which is in right side of street 2.

(iii) Locate the position of Mr. K's house.

(iv) How do you describe the position of the

post office.

(v) How do you describe the location of the hospital?



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## Exercise 5 2

1. Which the quadrant in which of the following points lie?

(i) (-2,3) (ii) (5,-3) (iii) (4,2) (iv) (-7,-6)

(v) (0,8) (vi) (3,0) (vii) (-4,0) (viii) (0,-6)



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2. Write the abscissae and ordinates of the following points.

(i) (4,-8) (ii) (-5,3) (iii) (0,0) (iv) (5,0) (v) (0,-8)



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3. Which of the following points lie on the axes? Also name the axis

(i)  $(-5,-8)$  (ii)  $(0,13)$  (iii)  $(4,-2)$  (iv)  $(-2,0)$

(v)  $(0,-8)$  (vi)  $(7,0)$  (vii)  $(0,0)$



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4. Write the following based on the graph

(i) The ordinate of L

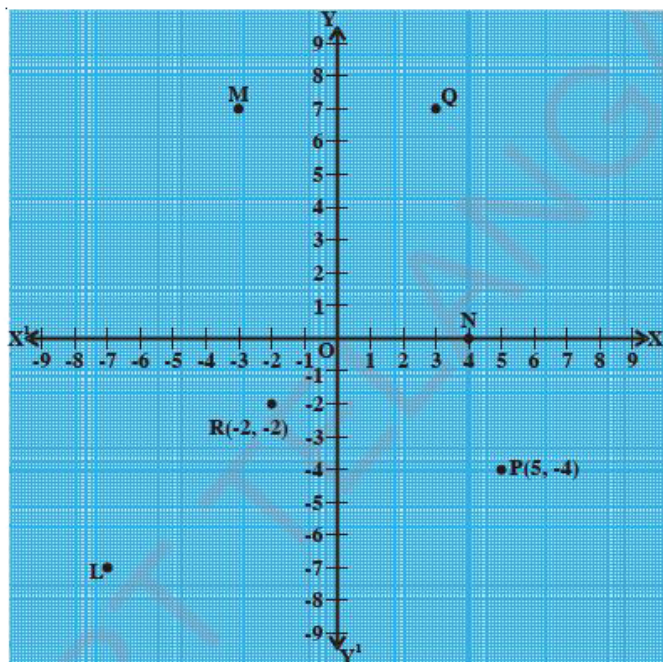
(ii) The ordinate of Q

(iii) The point denoted by  $(-2,-2)$

(iv) The point denoted by  $(5,-4)$

(v) The abscissa of N

(vi) The abscissa of M



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5. State True or False, if 'false' write correct statement.

In the Cartesian plane the horizontal line is called Y-axis.



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6. State True or False, if 'false' write correct statement.

In the Cartesian plane the vertical line is called Y-axis.





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**7.** State True or False, if 'false' write correct statement.

The point which lies on both the axes is called origin.



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**8.** State True or False, if 'false' write correct statement.

The point  $(2,-3)$  lies in the third quadrant.



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**9.** State True or False, if 'false' write correct statement.

$(-5,-8)$  lies in the fourth quadrant.



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**10.** State True or False, if 'false' write correct statement.

The point  $(-x,-y)$  lies in the first quadrant where

$$x < 0, y < 0.$$



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### Exercise 5 3

1. Are the positions of  $(5,-8)$  and  $(-8,-5)$  is same?

Justify your answer.



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2. What can you say about the position of the points  $(1,2)$ ,  $(1,3)$ ,  $(1,-4)$ ,  $(1,0)$  and  $(1,8)$ . Locate on a graph sheet.



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3. What can you say about the position of the points  $(5,4)$   $(8,4)$   $(3,4)$ ,  $(0,4)$ ,  $(-4,4)$ ,  $(-2,4)$ ?  
Locate the points on a graph sheet. Justify your answer.



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4. Plot the points  $(0,0)$ ,  $(0,3)$ ,  $(4,3)$ ,  $(4,0)$  in graph sheet. Join the points with straight lines to make a rectangle. Find the area of the rectangle.



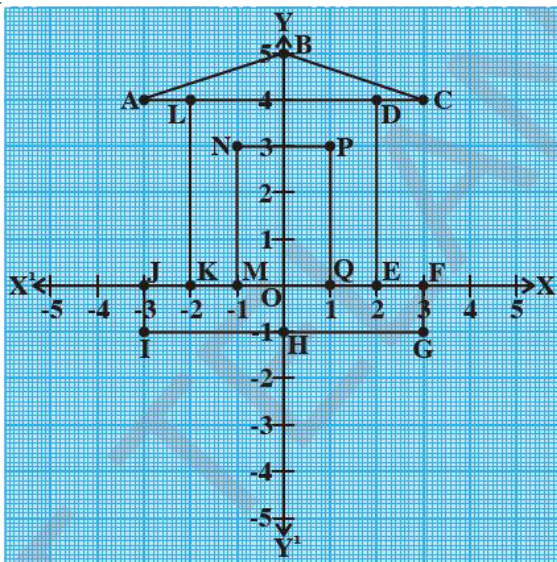
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5. Plot the points  $(2,3)$ ,  $(6,3)$  and  $(4,7)$  in a graphsheet. Join them to make it a triangle. Find the area of the triangle.



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6. Look at the graph. Write the coordinates of the points A,B,C,D,E,F,G,H,I,J,K,L,M,N,P,O and Q



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7. In a graph Sheet Plot each pairs of points, join them by line segments.

(i) (2,5), (4,7) (ii) (-3,5), (-1,7) (iii) (-3,-4), (2,-4)

(iv) (-3,-5), (2,-5) (v) (4,-2), (4,-3) (vi) (-2,4), (-2,3)

(vii) (-2,1), (-2,0) (viii) (4,7), (4,-3) (ix) (4,-2), (2,-4)

(x) (4,-3), (2,-5) (xi) (2,5), (2,-5) (xii) (-3,5), (-3,-5)

(xiii) (-3,5), (2,5) (xiv) (-1,7), (4,7)



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**8.** Plot the following pairs of points on the axes and join them with line segment

$(1,0), (0,9), (2,0), (0,8), (3,0), (0,7), (4,0), (0,6)$

$(5,0), (0,5), (6,0), (0,4), (7,0), (0,3), (8,0), (0,2), (9,0),$

$(0,1)$



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**Do This**

1. Describe the setting position of any five students in your classroom.



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2. Plot the following points on a Cartesian plane.

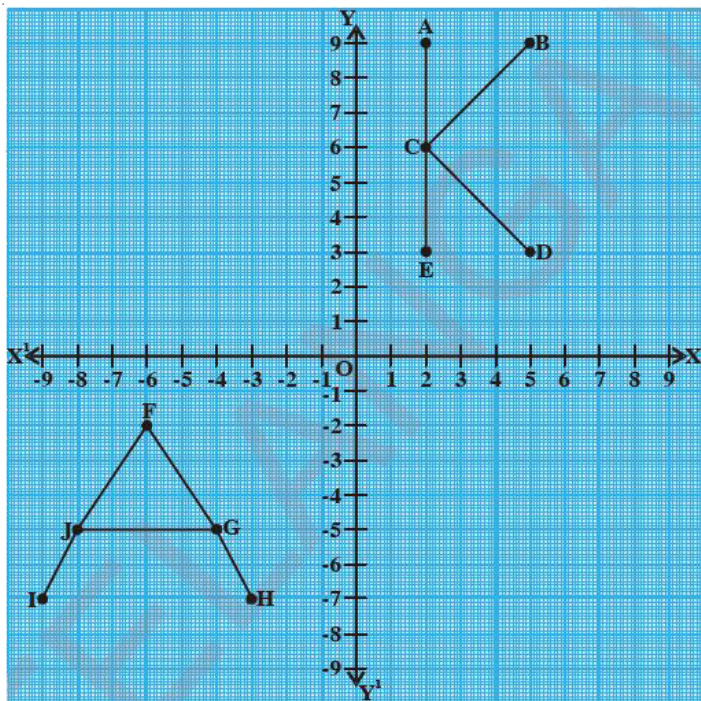
(i) B(-2,3) (ii) L(5,-8) (iii) U(6,4) (iv) E(-3,-3)



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3. (i) Write the coordinates of the points A,B,C,D,E.

(ii) Write the coordinates of F,G,H,I,J.



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4. Among the points given below some of the points lie on X-axis. Identify them

(i) (0,5) (ii) (0,0) (iii) (3,0)

(iv) (-5,0) (v) (-2,-3) (vi) (-6,0)

(viii) (0,a) (ix) (b,0)



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**Try These**

1. Which axis the points such as (0,x) (0,y) (0,2) and (0,-5) lie on? Why?



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2. What is the general form of the points which lie on X-axis?



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