



MATHS

NCERT - NCERT Maths(Telugu)

CO-ORDINATE GEOMETRY

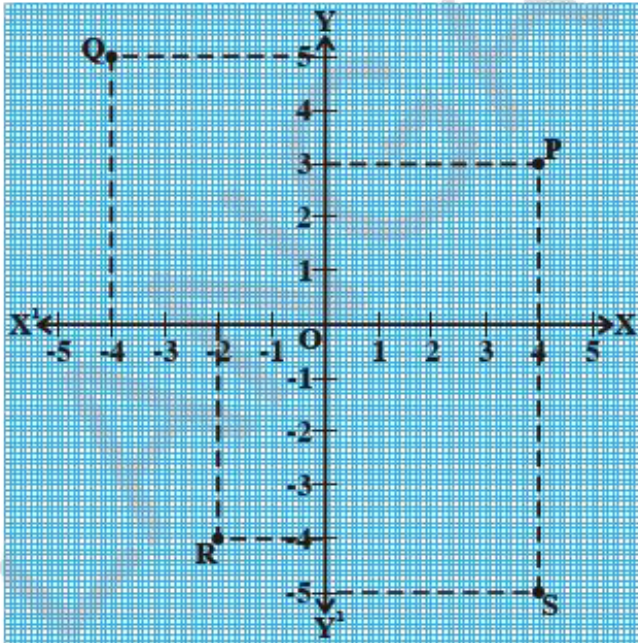
Example

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

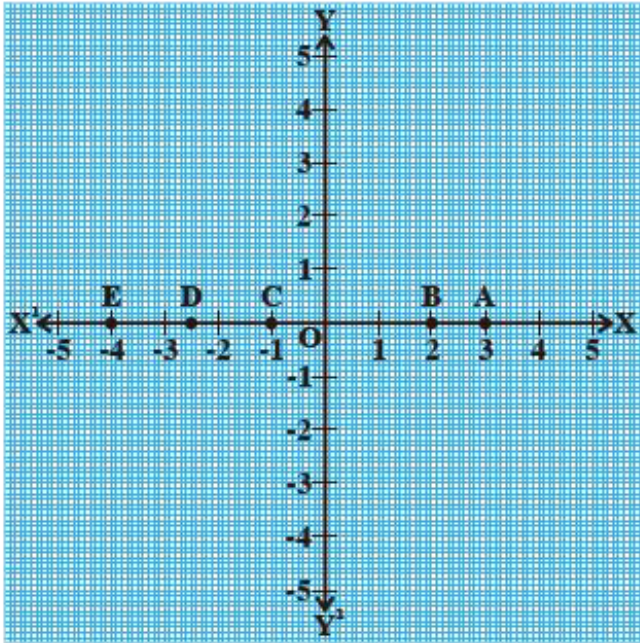


graph.



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3. Write the coordinates of the points marked in the

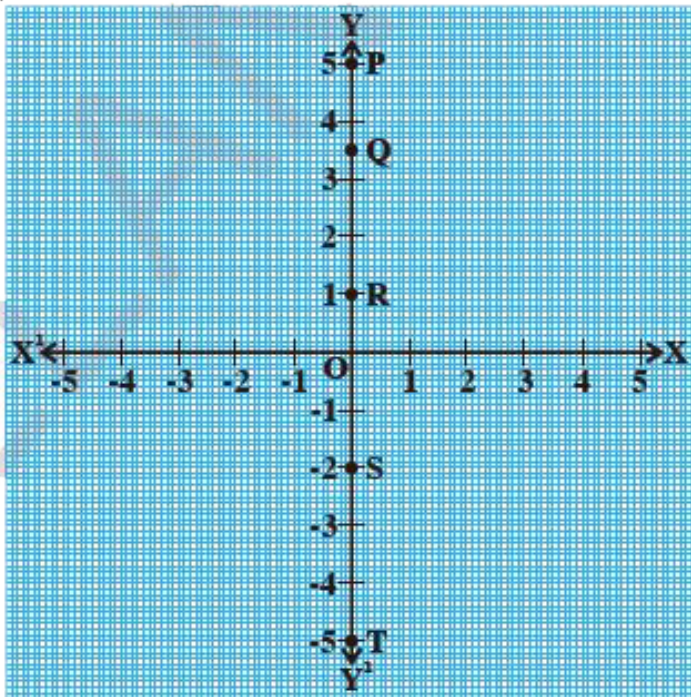


graph.



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4. Write the coordinates of the points marked in the

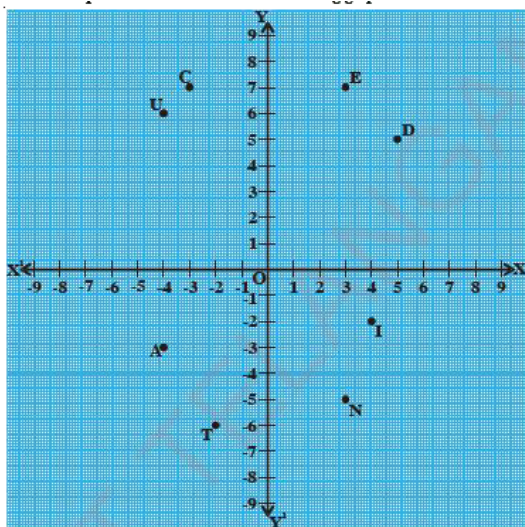


graph.



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5. Complete the table based on the following graph.



| 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 | | | | | |



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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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8. Plot the points A(2,2) B(6,2), C(8,5) and D(4,5) in a graph sheet. Join all the points to make it is a

parallalogram. Find its area.



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9. State the abscissa and ordinate of the following point and describe the position of each point

$P(8,8)$



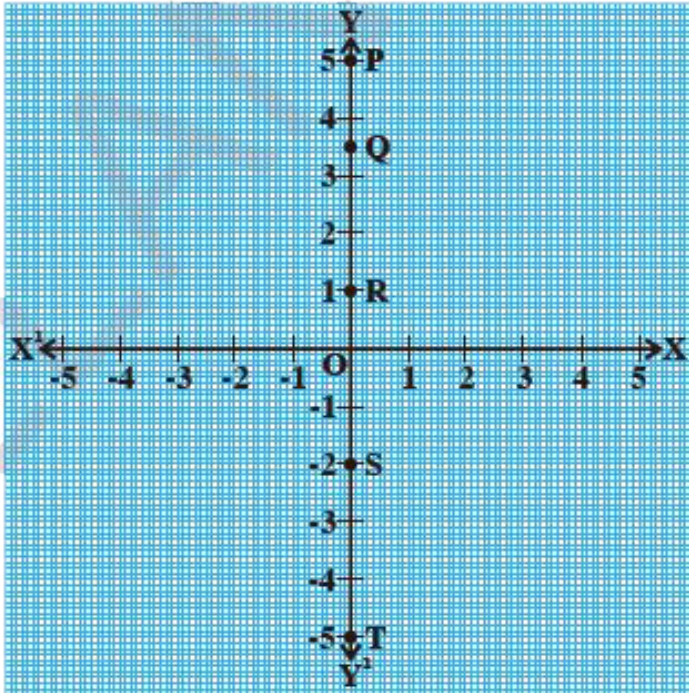
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10. State the abscissa and ordinate of the following point and describe the position of each point

$Q(6, - 8)$



11. Write the coordinates of the points marked in the



graph.

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



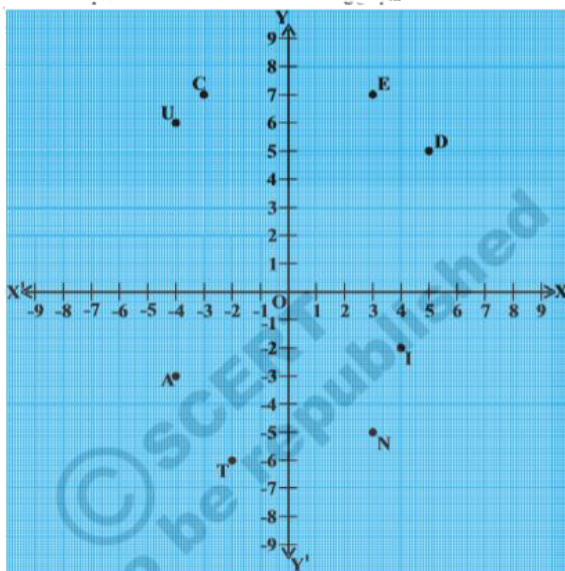
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13. Write the coordinates of the points marked in the graph.



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14. Complete the table based on the following graph.



| 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 | | | | | |



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15. Plot the following points in the Cartesian plane

$$M(-2, 4)$$



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16. Plot the following points in the Cartesian plane

$$A(-5, -3)$$



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17. Plot the following points in the Cartesian plane

$$N(1, -6)$$



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18. 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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19. Plot the points $A(2,2)$ $B(6,2)$, $C(8,5)$ and $D(4,5)$ in a graph sheet. Join all the points to make it is a parallalogram. Find its area.



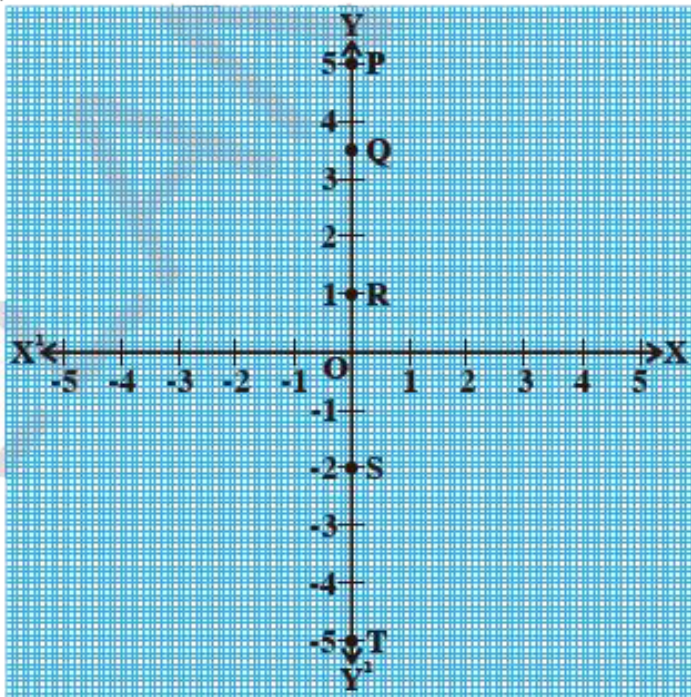
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20. State the abscissa and ordinate of the following points and describe the position of each point (i) $P(8,8)$ (ii) $Q(6,-8)$.



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21. Write the coordinates of the points marked in the

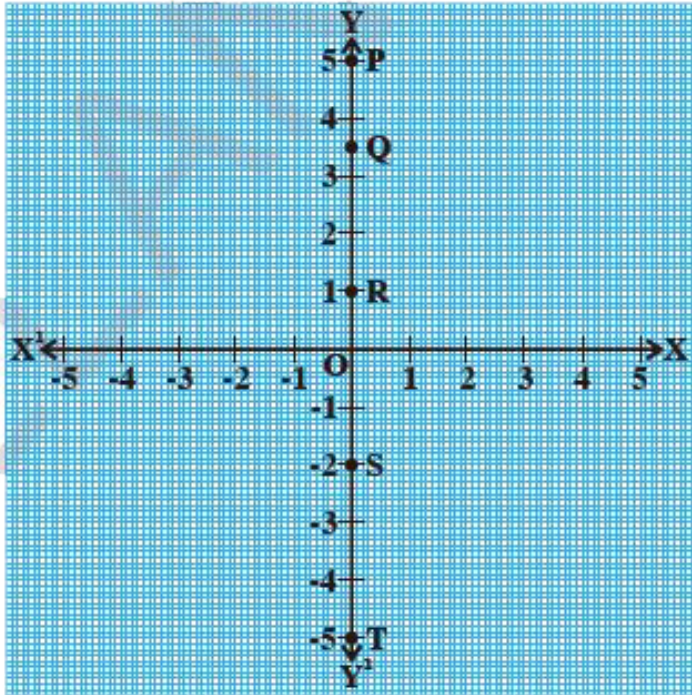


graph.



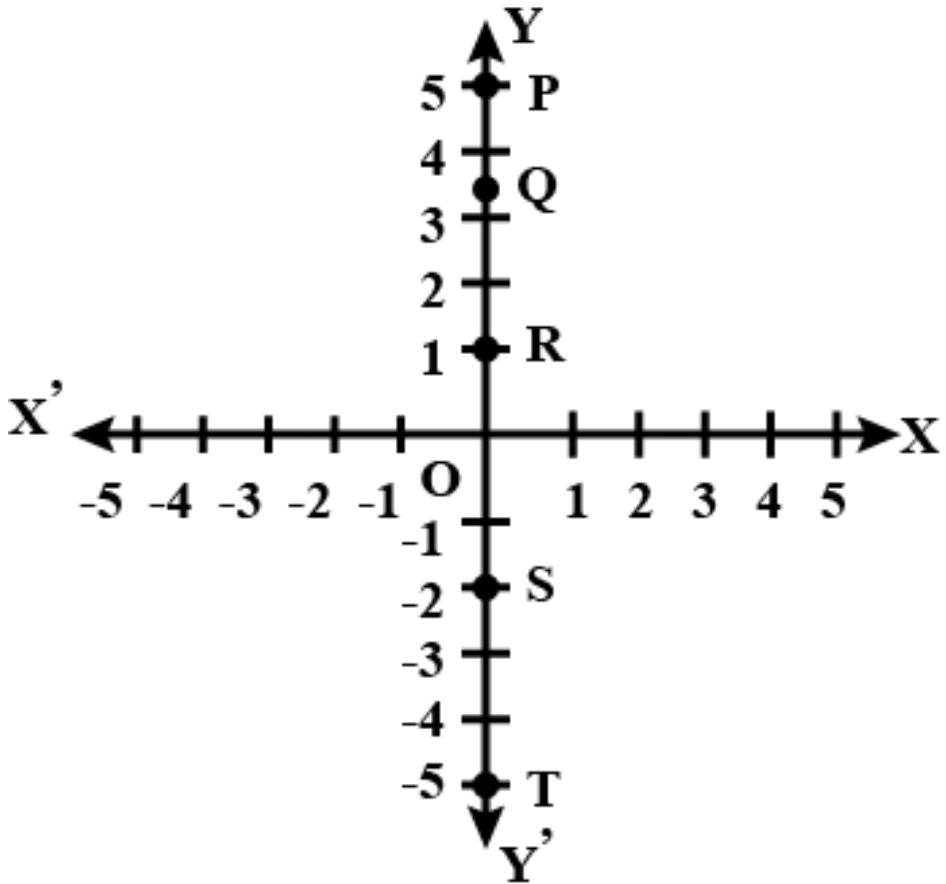
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22. Write the coordinates of the points marked in the graph.



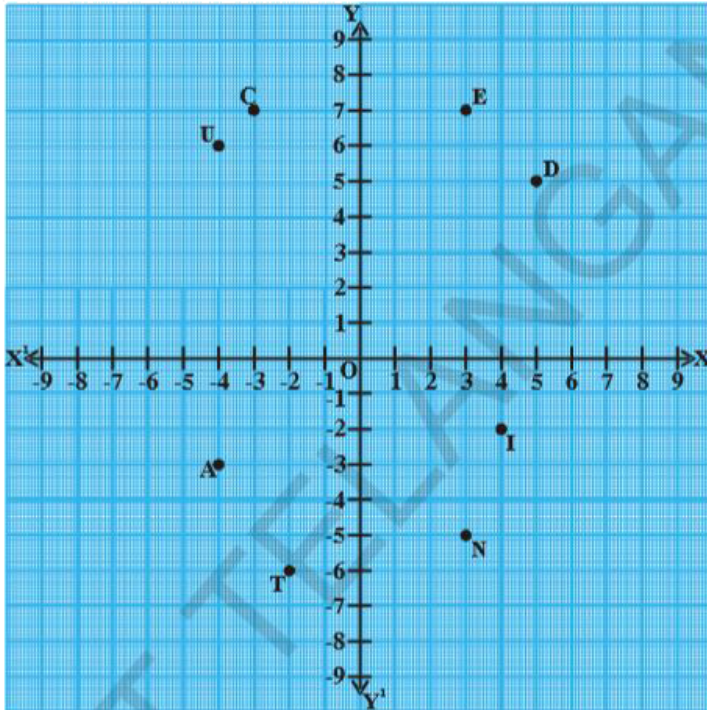
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23. Write the coordinates of the points marked in the graph.



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24. Complete the table based on the following graph.



| 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 | | | | | |



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25. Plot the following points in the Cartesian plane

$M(-2, 4)$



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26. 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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27. Plot the points $A(2,2)$ $B(6,2)$, $C(8,5)$ and $D(4,5)$ in a graph sheet. Join all the points to make it is a parallalogram. Find its area.



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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.

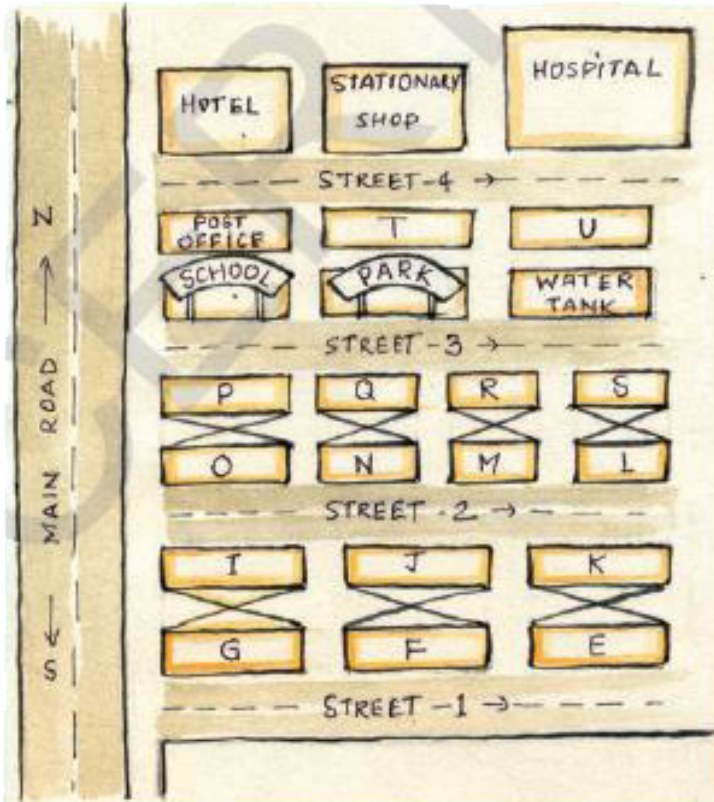
(i) What is the 3rd object on the left side in street no 3?

(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.

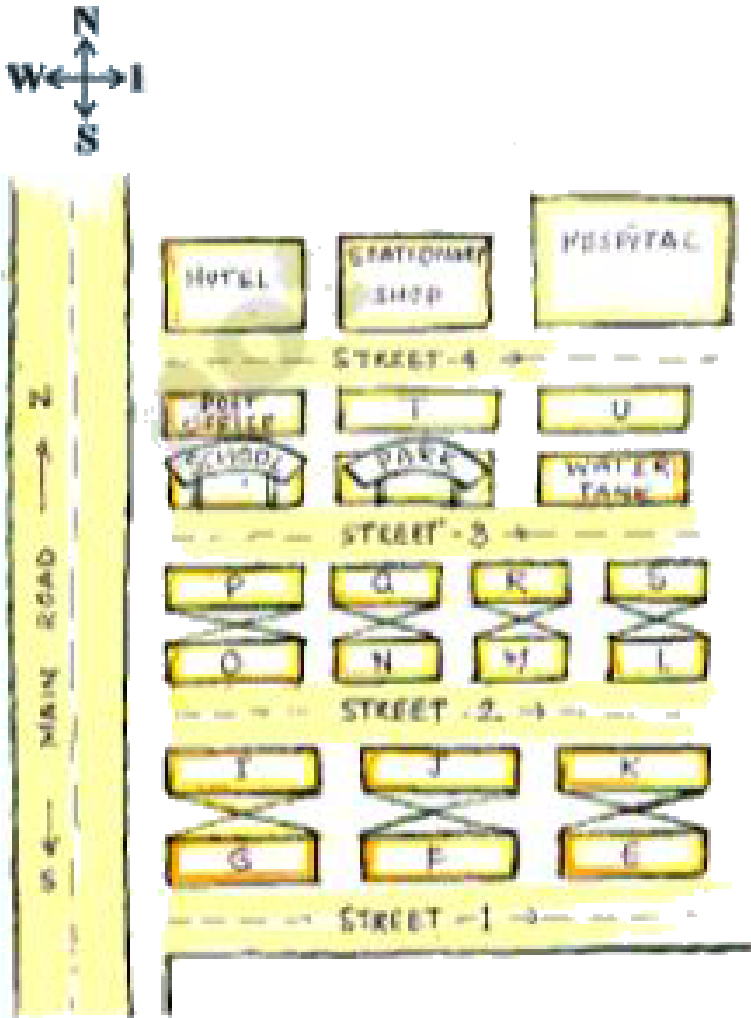
(v) How do you describe the location of the hospital?



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2. 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.

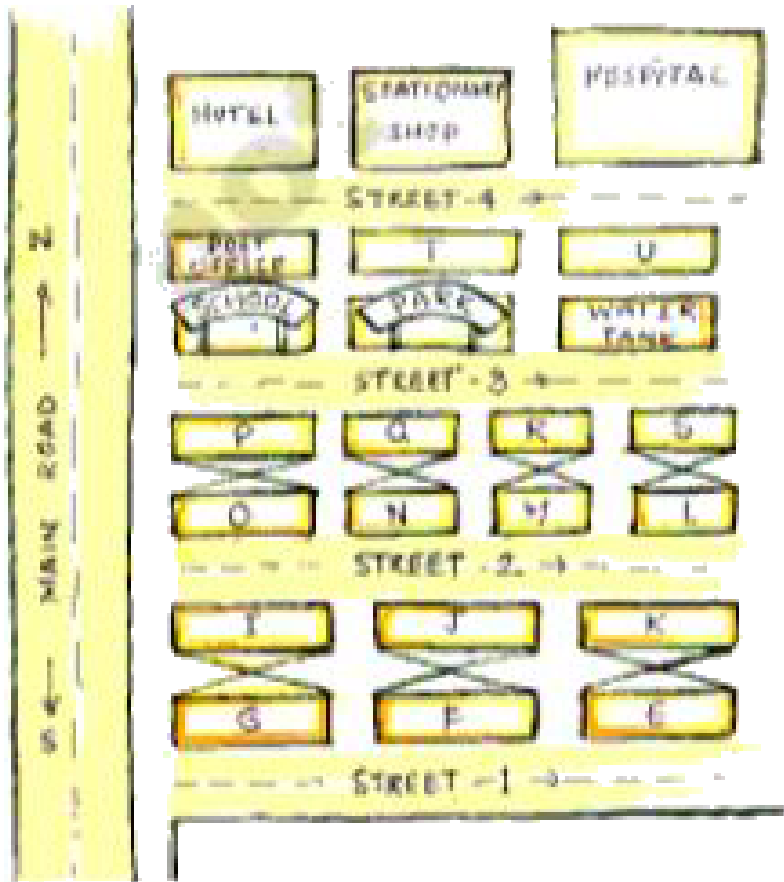


What is the 3rd object on the left side in street no.3?



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3. 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.

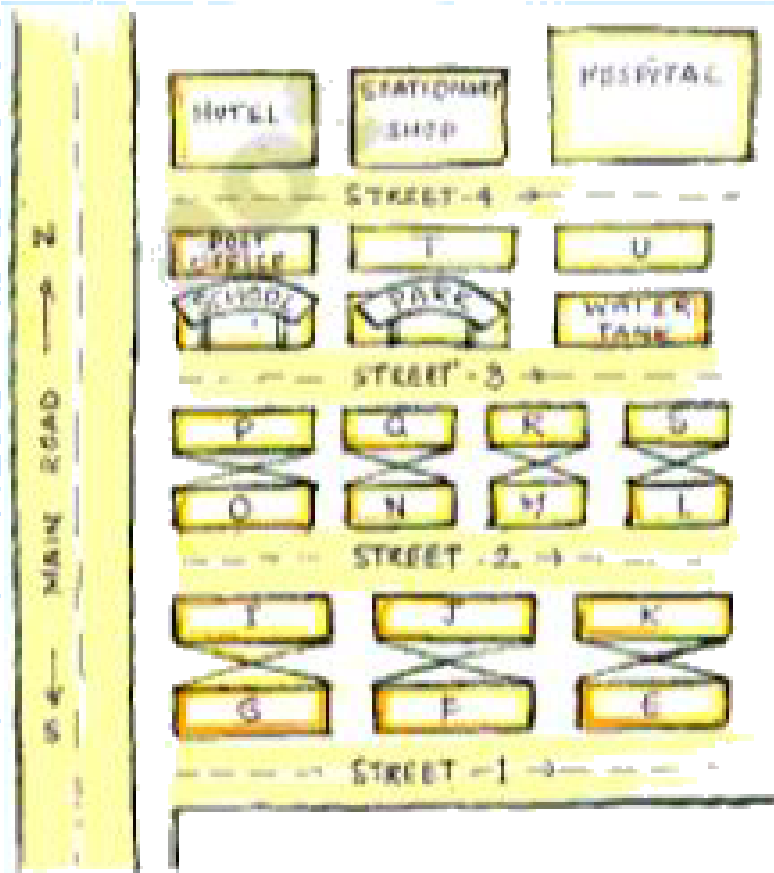


Find the name of the 2nd house which is in right side of street 2.



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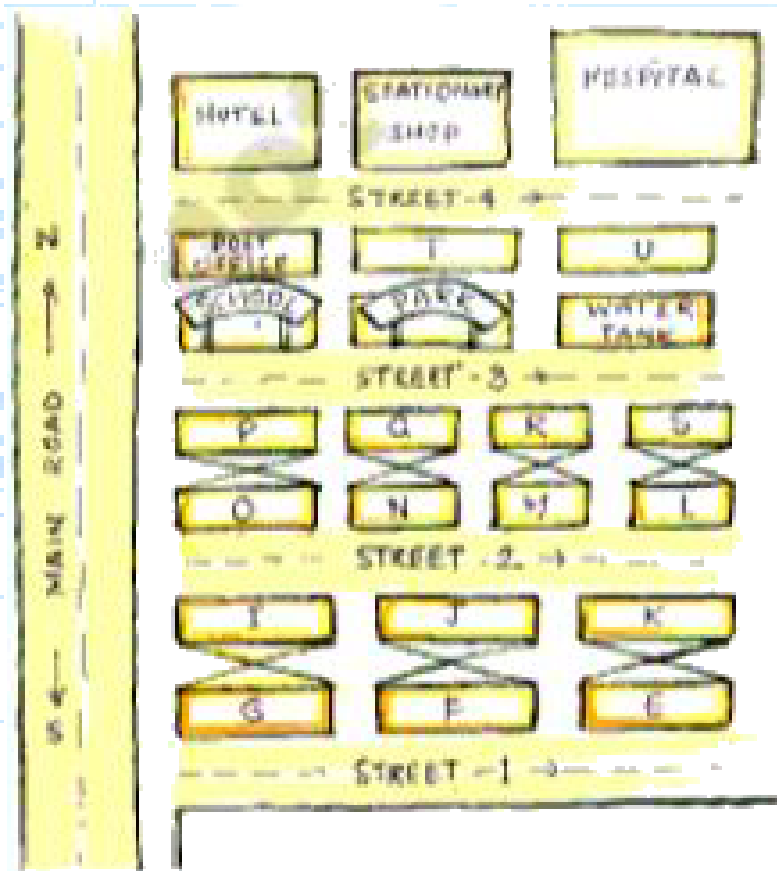
4. In a locality, there is a main road along North-South direction. The map is given below. With the help of the picture answer the following questions.



Locate the position of Mr.K's house.

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5. 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.

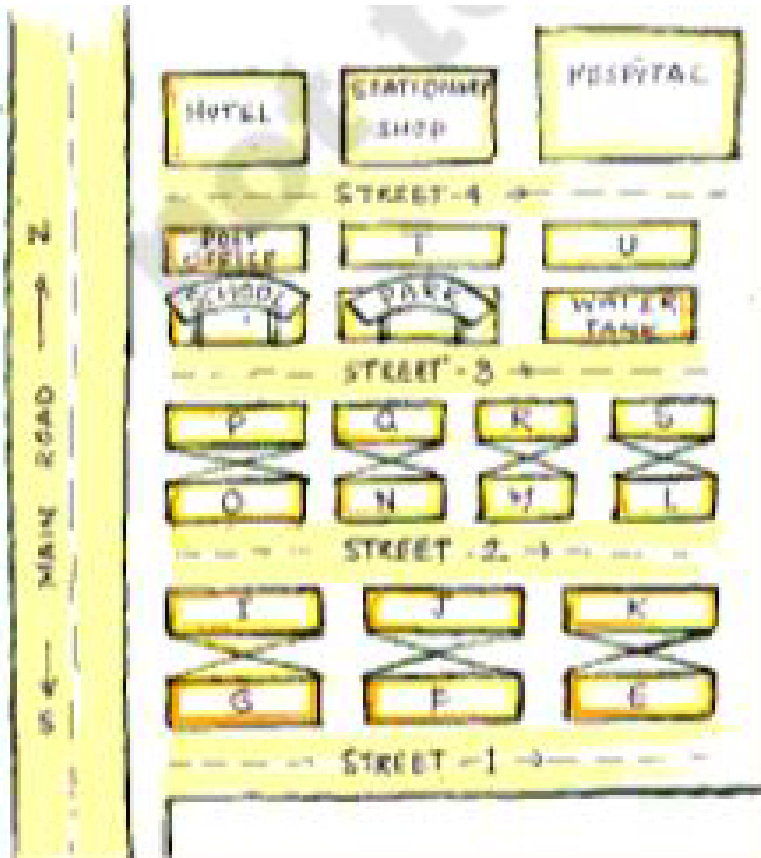


Locate the position of Mr.K's house.



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6. 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.



How do you describe the location of the hospital?



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7. 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.

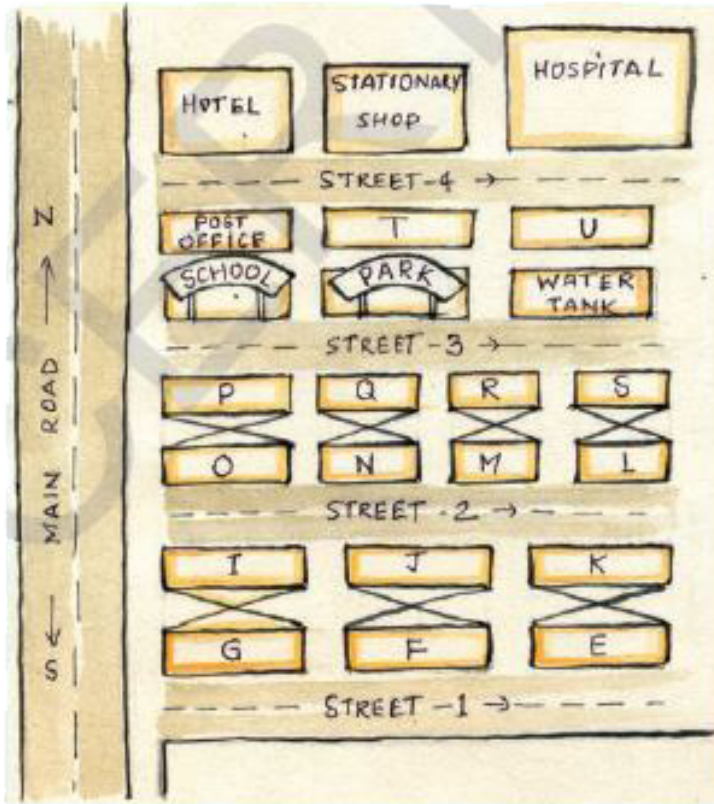
(i) What is the 3rd object on the left side in street no 3?

(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

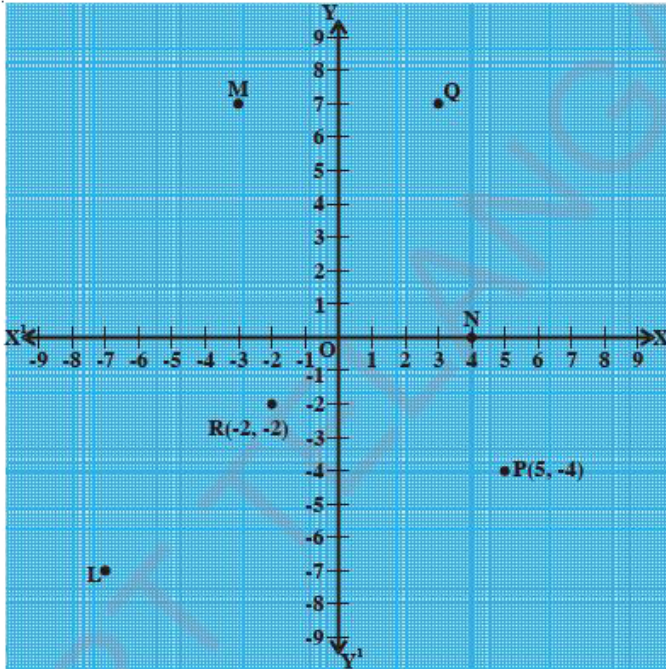
(ii) The ordinate of Q

(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 X-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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11. Plot the following ordered pairs on a graph sheet.

What do you observe?

(i) $(1,0)$, $(3,0)$, $(-2,0)$, $(-5,0)$, $(0,0)$, $(5,0)$, $(-6,0)$

(ii) $(0,1)$, $(0,3)$, $(0,-2)$, $(0,-5)$, $(0,0)$, $(0,5)$, $(0,-6)$



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12. Write the quadrant in which the following points

lie?

$(-2, 3)$



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13. Write the quadrant in which the following points lie?

$(5, -3)$



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14. Write the quadrant in which the following points lie?

$(4,2)$



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15. Write the quadrant in which the following points lie?

$(-7, -6)$



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16. Write the quadrant in which the following points lie?

$(0,8)$



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17. Write the quadrant in which the following points

lie?

$(3,0)$



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18. Write the quadrant in which the following points

lie?

$(-4, 0)$



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19. Write the quadrant in which the following points lie?

$(0, -6)$



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

$(4, -8)$

Note: Plural of abscissa is abscissae.



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

$(-5, 3)$

Note: Plural of abscissa is abscissae.



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

$(0,0)$

Note: Plural of abscissa is abscissae.



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

$(5,0)$

Note: Plural of abscissa is abscissae.



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

$(0, - 8)$

Note: Plural of abscissa is abscissae.



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25. Which of the following points lie on the axes?

Also name the axis.

$(-5, -8)$



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26. Which of the following points lie on the axes?

Also name the axis.

$(0, 13)$



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27. Which of the following points lie on the axes?

Also name the axis.

$(4, -2)$



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28. Which of the following points lie on the axes?

Also name the axis.

$(-2, 0)$



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29. Which of the following points lie on the axes?

Also name the axis.

$(0, -8)$



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30. Which of the following points lie on the axes?

Also name the axis.

$(7,0)$



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31. Which of the following points lie on the axes?

Also name the axis.

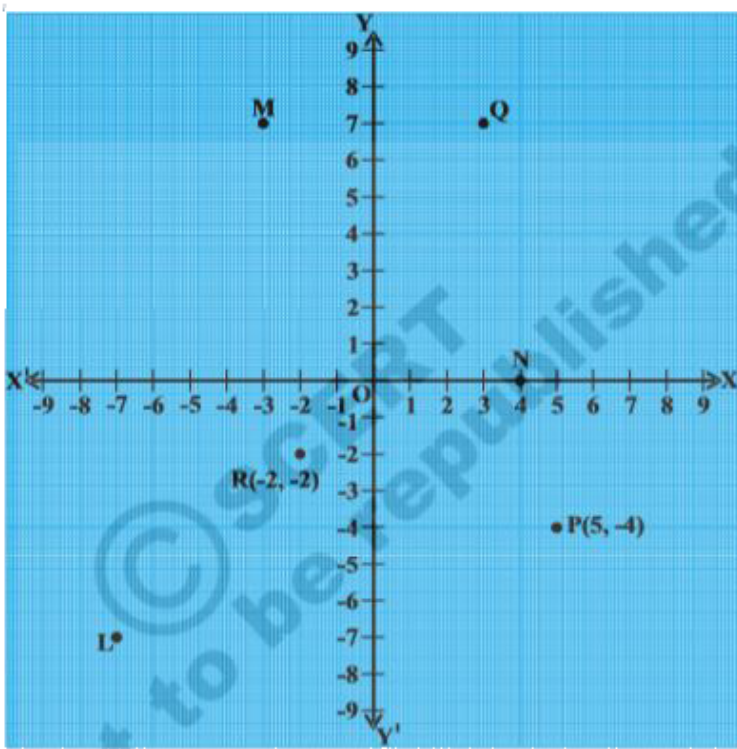
(0,0)



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32. Write the following based on the graph.

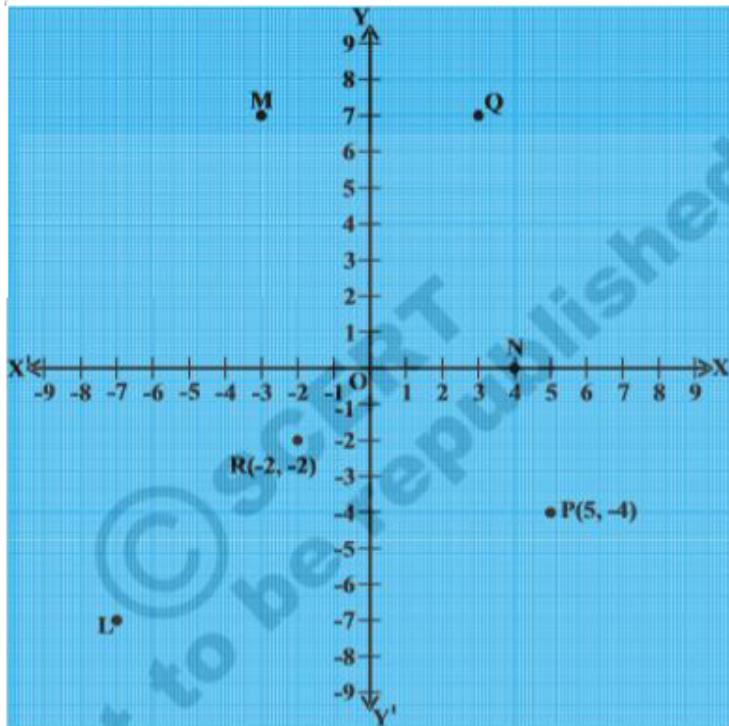
The ordinate of L



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33. Write the following based on the graph.

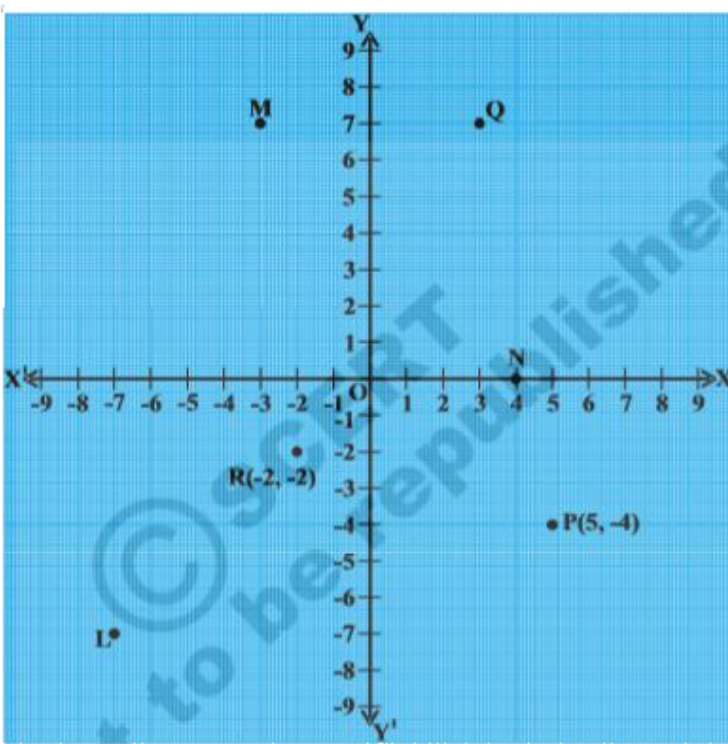
The ordinate of Q



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34. Write the following based on the graph.

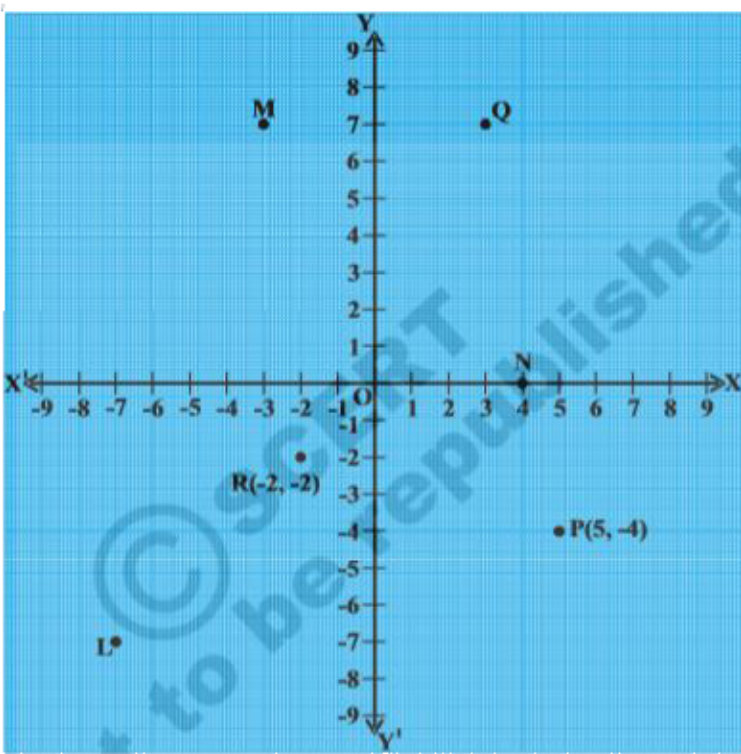
The point denoted by $(-2, -2)$



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35. Write the following based on the graph.

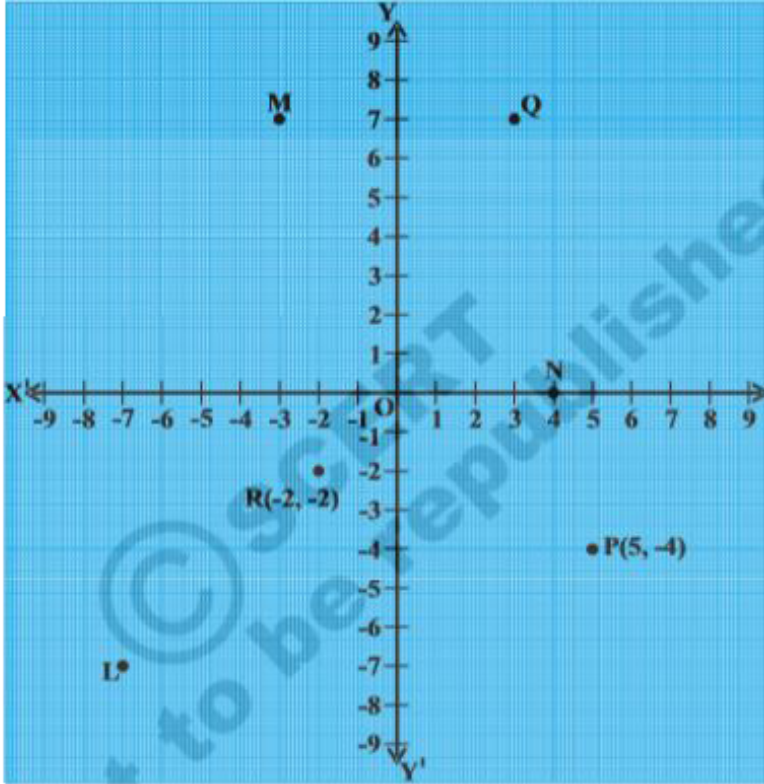
The point denoted by $(5, -4)$



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36. Write the following based on the graph.

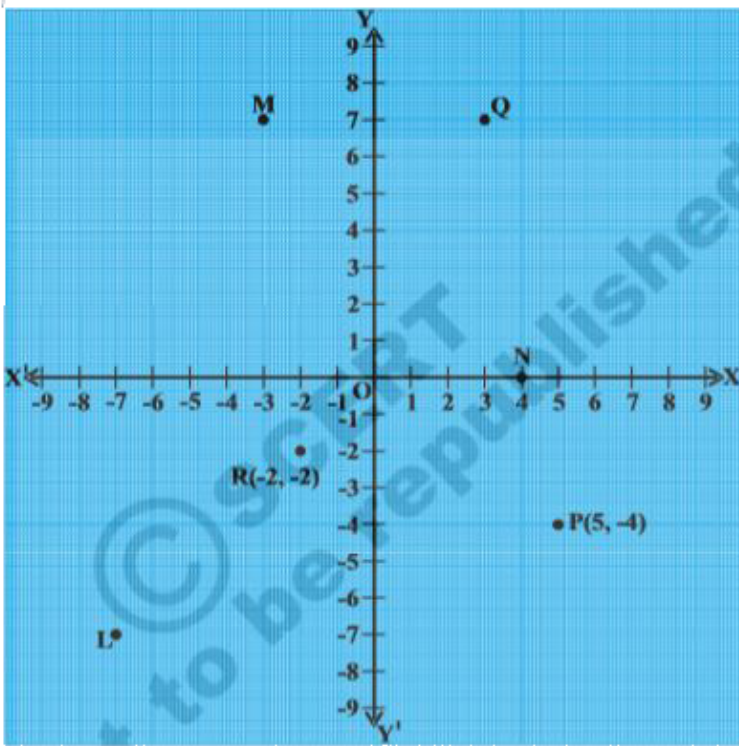
The abscissa of N



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37. Write the following based on the graph.

The abscissa of M



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

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



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

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



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

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



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

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



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

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



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43. 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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44. Plot the following ordered pairs on a graph sheet. What do you observe?

$(1, 0)$, $(3, 0)$, $(-2, 0)$, $(-5, 0)$, $(0, 0)$, $(5, 0)$, $(-6, 0)$



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45. Plot the following ordered pairs on a graph sheet. What do you observe?

$(0, 1)$, $(0, 3)$, $(0, -2)$, $(0, -5)$, $(0, 0)$, $(0, 5)$, $(0, -6)$



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46. Write the quadrant in which 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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47. 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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48. 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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49. Write the following based on the graph

(i) The ordinate of L

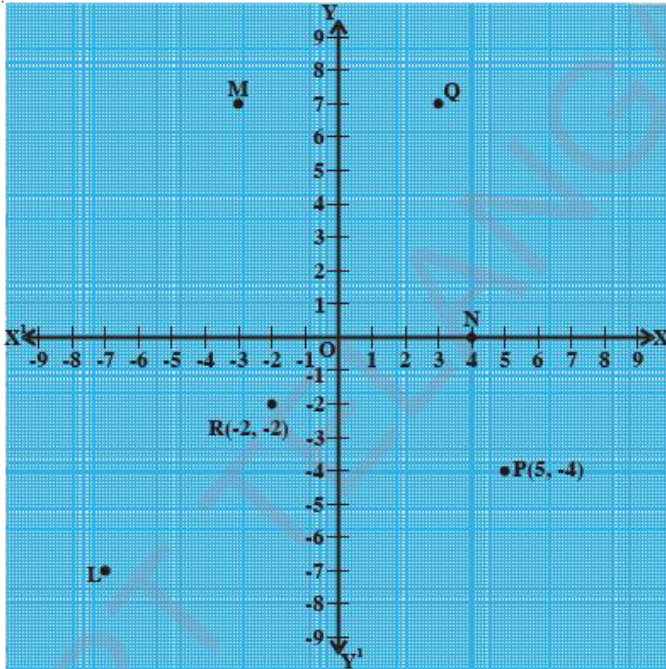
(ii) The ordinate of Q

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

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



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51. Plot the following ordered pairs on a graph sheet.

What do you observe?

(i) $(1,0)$, $(3,0)$, $(-2,0)$, $(-5,0)$, $(0,0)$, $(5,0)$, $(-6,0)$

(ii) $(0,1)$, $(0,3)$, $(0,-2)$, $(0,-5)$, $(0,0)$, $(0,5)$, $(0,-6)$



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Exercise 5 3

1. Plot the following in the Cartesian plane whose x,y co-ordinates are given

| | | | | | | |
|--------|----|----|----|----|----|----|
| x | 2 | 3 | -1 | 0 | -9 | -4 |
| y | -3 | -3 | 4 | 11 | 0 | -6 |
| (x, y) | | | | | | |



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2. Are the positions of (5,-8) and (-8,5) is same? Justify your answer.



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3. 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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4. 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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5. 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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6. 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.



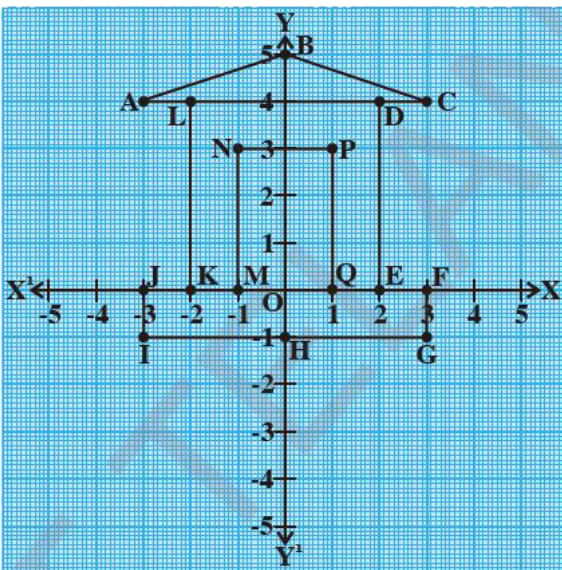
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7. Plot at least six points in a graph sheet, each having the sum of its coordinates equal to 5.



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8. 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





9. ఒక గ్రాఫ్ కాగితంలో కింది క్రమాయుగ్మాల జాతలను బిందువులుగా గుర్తించి, వాటిని రేఖాఖండాల్పై కలపండి. (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) $(-2, 1), (-2, 0)$ అదే గ్రాఫ్ పేపరు పై కింది క్రమాయుగ్మాల జాతాలను బిందువులుగా రేఖకండాల్పై కలపండి. viii) $(-3, 5), (-3, 4)$ ix) $(2, 5), (2, -4)$ x) $(2, -4), (4, -2)$ xi) $(2, -4), (4, -3)$ xii) $(4, -2), (4, 7)$ xiii) $(4, 7), (-1, 7)$ xiv) $(-3, 2), (2, 2)$ అప్పుడు మీరొక ఆశ్చర్యకరమైన పటాన్ని గమనించవచ్చు. అదేమిటి?





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10. Plot the following ordered pairs on a graph sheet. What do you observe?

(i) $(1,0)$, $(3,0)$, $(-2,0)$, $(-5,0)$, $(0,0)$, $(5,0)$, $(-6,0)$

(ii) $(0,1)$, $(0,3)$, $(0,-2)$, $(0,-5)$, $(0,0)$, $(0,5)$, $(0,-6)$



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11. Plot the following points in the Cartesian plane whose x,y co-ordinates are given.

| | | | | | | |
|---------|----|----|----|----|----|----|
| x | 2 | 3 | -1 | 0 | -9 | -4 |
| y | -3 | -3 | 4 | 11 | 0 | -6 |
| (x,y) | | | | | | |



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

Justify your answer.

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13. 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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14. 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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15. 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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16. 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.



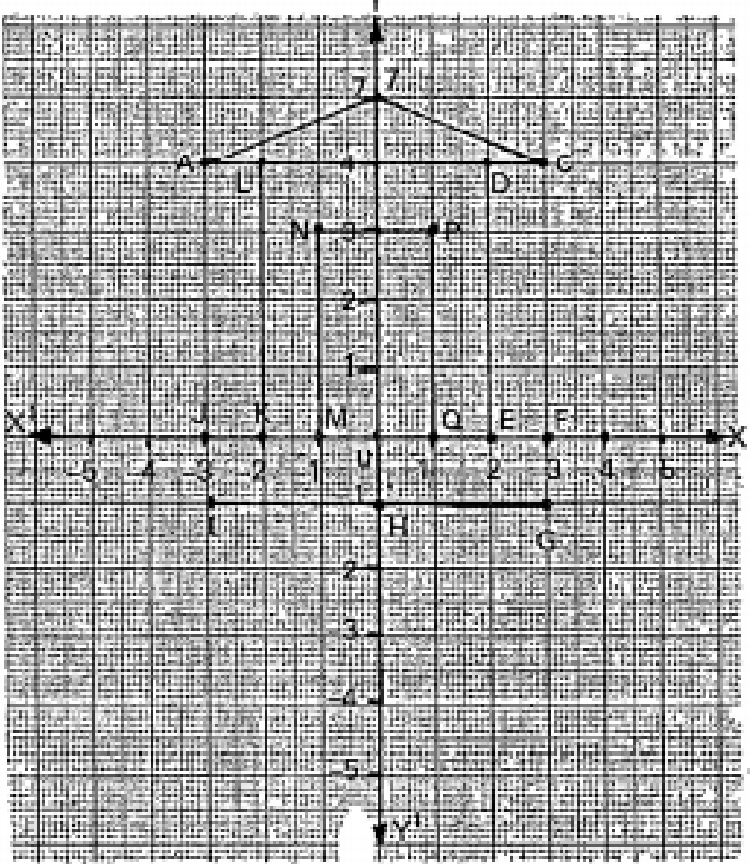
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17. Plot at least six points in a graph sheet, each having the sum of its coordinates equal to 5.



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18. Look at the graph. Write the co-ordinates 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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19. In a graph Sheet Plot each pair 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)
 $(-2, 1)$, $(-2, 0)$

Now join the following pairs of points by straight line segments, in the same graph.

- (viii) $(-3, 5)$, $(-3, 4)$ (ix) $(2, 5)$, $(2, -4)$ (x)
 $(2, -4)$, $(4, -2)$ (xi) $(2, -4)$, $(4, -3)$ (xii)
 $(4, -2)$, $(4, 7)$ (xiii) $(4, 7)$, $(-1, 7)$ (xiv)
 $(-3, 2)$, $(2, 2)$

Now you will get a surprise figure. What is it?



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20. Plot the following points in the Cartesian plane whose x, y co-ordinates are given.

| | | | | | | |
|----------|----|----|----|----|----|----|
| x | 2 | 3 | -1 | 0 | -9 | -4 |
| y | -3 | -3 | 4 | 11 | 0 | -6 |
| (x, y) | | | | | | |



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

Justify your answer.



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22. 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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23. 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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24. 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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25. 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.



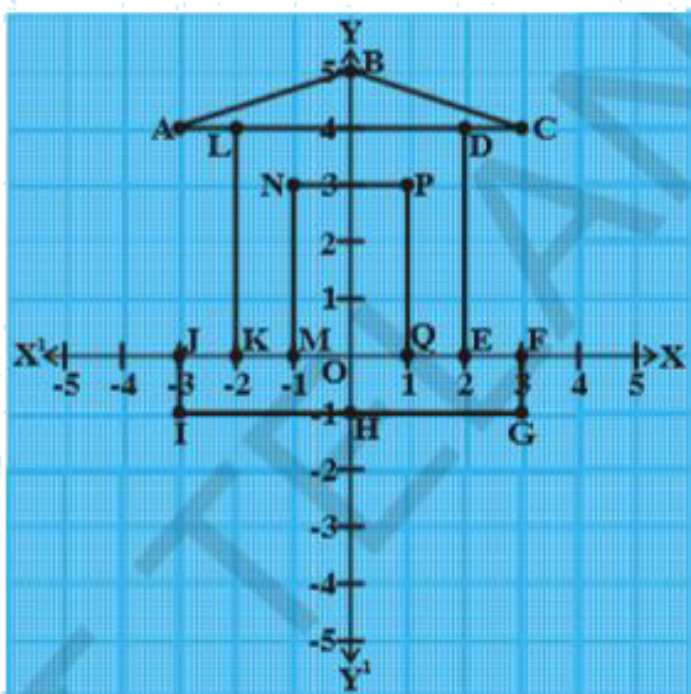
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26. Plot at least six points in a graph sheet, each having the sum of its coordinates equal to 5.



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



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28. In a graph Sheet Plot each pair 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)

$(-2, 1), (-2, 0)$

Now join the following pairs of points by straight line segments, in the same graph.

(viii) $(-3, 5), (-3, 4)$ (ix) $(2, 5), (2, -4)$ (x)

$(2, -4), (4, -2)$ (xi) $(2, -4), (4, -3)$ (xii)

$(4, -2), (4, 7)$ (xiii) $(4, 7), (-1, 7)$ (xiv)

$(-3, 2), (2, 2)$

Now you will get a surprise figure. What is it?



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29. ఒక గ్రాఫ్ కాగితంపై కింద ఇవ్వబడిన బిందువుల జాతాలను గుర్తించి రేఖ ఖండాలచే కలపండి. $(1, 0)(0, 9)$, $(2, 0)(0, 8)$, $(3, 0)(0, 7)$, $(4, 0)(0, 6)$, $(5, 0)(0, 5)$, $(6, 0)(0, 4)$, $(7, 0)(0, 3)$, $(8, 0)(0, 2)$, $(9, 0)(0, 1)$



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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

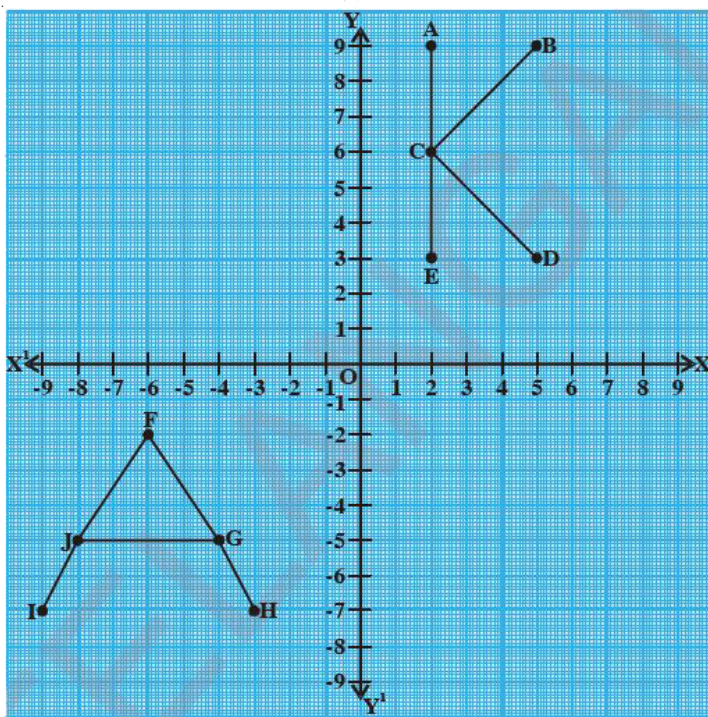
(i) B(-2,3) (ii) L(5,-8) (iii) U(6,4) (iv) E(-3,-3)



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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) $(-6,0)$

(vii) $(0,a)$ (viii) $(b,0)$



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



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

$(0,5)$





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

$(0,0)$



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

$(3,0)$



[Watch Video Solution](#)

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

$(-5, 0)$



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

$(-2, -3)$



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

$(-6, 0)$



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

$(0,6)$



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

$(0,a)$



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

$(b,0)$



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15. Plot the following points on a Cartesian plane.

$$B(-2, 3)$$



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16. Plot the following points on a Cartesian plane.

$$L(5, -8)$$



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17. Plot the following points on a Cartesian plane.

$$U(6, 4)$$



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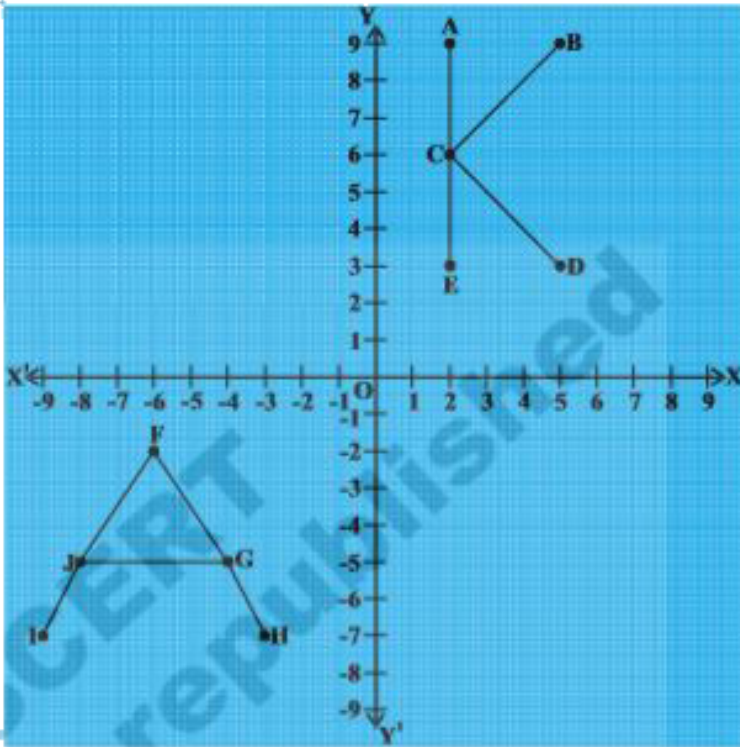
18. Plot the following points on a Cartesian plane.

$$E(-3, -3)$$



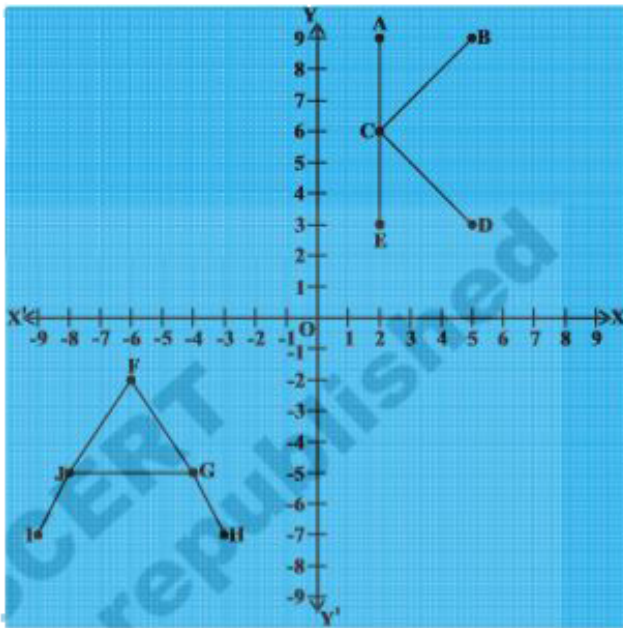
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19. Write the coordinate of the points A,B,C,D, E



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20. Write the coordinates of F,G,H,I,J



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



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

(0,5)



[Watch Video Solution](#)

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

(0,0)



[Watch Video Solution](#)

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

$(3,0)$



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

$(-5, 0)$



Watch Video Solution

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

$(- 2, - 3)$



Watch Video Solution

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

$(- 6, 0)$



Watch Video Solution

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

(0,6)



Watch Video Solution

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

(0,a)



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

$(b,0)$



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31. Plot the following points on a Cartesian plane.

$B(-2, 3)$



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32. Plot the following points on a Cartesian plane.

$L(5,-8)$



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33. Plot the following points on a Cartesian plane.

$U(6,4)$



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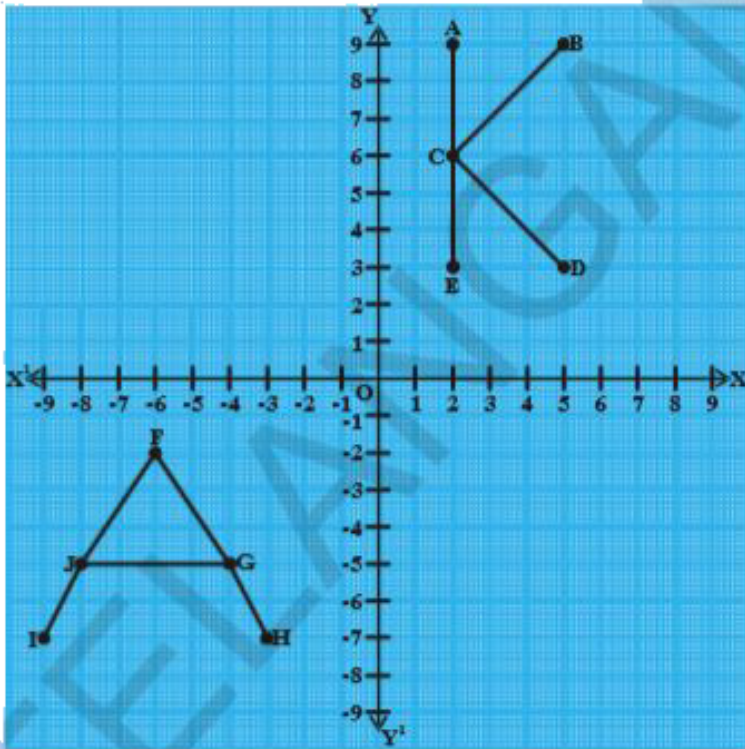
34. Plot the following points on a Cartesian plane.

$E(-3, -3)$



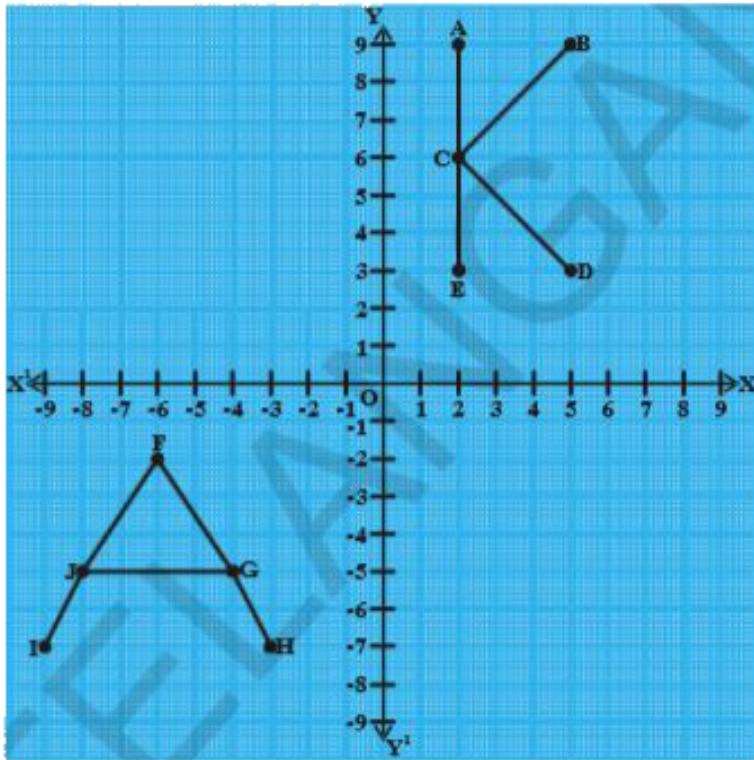
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35. Write the coordinates of the points A,B,C, D,E.



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36. Write the coordinates of the points F,G,H,I,J.



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



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



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



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6. What is the general form of the points which lie on X-axis ? Write any four points lie on X-axis.



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