



## MATHS

# NCERT - NCERT Maths(Telugu)

# **CO-ORDINATE GEOMETRY**



**1.** State the abscissa and originate of the following points and describe the position of each point (i) P(8,8) (ii) Q(6,-8).





graph.





graph.



#### 5. Complete the table based on the following graph.



Point	Abscissa	Ordinate	<b>Co-ordinates</b>	Quadrant	Signs of co-ordinates
Е	3	7	E (3,7)	Q	(+, +)
D					
U	-4	6	U (-4,6)		(-,+)
С	N				
A	-4	-3	A (-4, -3)		(-,-)
Т	<u></u>	- <u></u>			
I	4	-2	I (4, -2)		(+,-)
0					
N					

**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)



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



**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



**9.** State the abscissa and ordinate of the following point and describe the position of each point P(8,8)



10. State the abscissa and ordinate of the following

point and describe the position of each point

Q(6, -8)







graph.



graph.

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13. Write the coordinates of the points marked in the

graph.

## **14.** Complete the table based on the following graph.



Point	Abscissa	Ordinate	Co-ordinates	Quadrant	Signs of co-ordinates
Е	3	7	E (3,7)	Q1	(+,+)
D	<u> </u>				
U	-4	6	U (-4,6)		(-,+)
с					
Α	-4	-3	A (-4, -3)		(-,-)
Т					
I	4	-2	I (4, -2)		(+,)
0					
N					



 $M(\,-\,2,\,4)$ 



17. Plot the following points in the Cartesian plane

N(1, -6)

**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.



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





graph.



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graph.



## 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 <sub>1</sub>	(+, +)
D					
U	-4	6	U (-4,6)		(-,+)
С	N				
A	-4	-3	A (-4, -3)		(-,-)
Т	<u> </u>				
Ι	4	-2	I (4, -2)		(+,-)
0					
N					

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## 25. Plot the following points in the Cartesian plane

 $M(\,-\,2,\,4)$ 

**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.





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

The man 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 no3?

(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  $3^{rd}$  object on the left side in street no.3?



**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  $2^{nd}$  house which is in right side

of street 2.



**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.



**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.



**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?



**7.** In a locality, there is a man road along North-South direction.

The man 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 no3?

(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?





#### 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)

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)



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 Yaxis.



**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.



**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.
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)



12. Write the quadrant in which the following points

lie?

(-2,3)

lie?

$$(5, -3)$$

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# 14. Write the quadrant in which the following points

lie?

(4,2)

lie?

(-7, -6)

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16. Write the quadrant in which the following points

lie?

(0,8)

lie?

(3,0)

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**18.** Write the quadrant in which the following points

lie?

(-4, 0)

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.

**21.** Write the abscissae and ordinates of the following points. (-5, 3)

Note: Plural of abscissa is abscissae.



22. Write the abscissae and ordinates of the

following points.

(0,0)

Note: Plural of abscissa is abscissae.

23. Write the abscissae and ordinates of the following points.(5,0)

Note: Plural of abscissa is abscissae.



24. Write the abscissae and ordinates of the

following points.

(0, -8)

Note: Plural of abscissa is abscissae.

**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)

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.

$$(\,-2,\,0)$$

**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)

**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





The ordinate of Q





The point denoted by (-2, -2)





The point denoted by (5, -4)





The abscissa of N





The abscissa of M





**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 Yaxis.



**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.



**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.

**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?

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

lie ?

 $egin{aligned} (i)(-2,3)\ (ii)(5,\ -3)\ (iii)(4,2)\ (iv)(-7,\ -6)\ (v)(0,8)\ (vi)(3,0)\ (vii)(-4,0)\ (viii)(0,\ -6) \end{aligned}$ 



**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)

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.





#### Exercise 5 3

**1.** Plot the following in the Cartisian plane whose x,y

co-ordinate	dinates are			given		
x 2 y -3 (x, y)	3 -3	-1 4	0 11	9 0	-4 -6	
<b>Vat</b> c	h Vid	eo Sol	ution			

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

your answer.



**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.



**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.



7. Plot at least six points in a graph sheet, each

having the sum of its coordinates equal to 5.



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 రేఖాఖందాల్చె 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 రేఖకందాల్చె 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?





**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)



# 11. Plot the following points in the Cartisian plane

whose x,y co-ordinates are given.

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





**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.

**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.



**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.



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?
20. Plot the following points in the Cartisian plane

whose x,y co-ordinates are given.

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



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

Justify your answer.

**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.



**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.



26. Plot at least six points in a graph sheet, each

having the sum of its coordinates equal to 5.



#### 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.



**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?

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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1. Describe the setting position of any five students

in your classroom.

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)



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

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



### 4. Among the points given below some of the poitns

lie on X-axis. Identify them

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

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

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



5. Describe the setting position of any five students

in your classroom.



6. Among the points given below some of the points

lie on X-axis. Identify them.

(0,5)





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)

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.

$$(-2, -3)$$

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)

**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)

**15.** Plot the following points on a Cartesian plane.

$$B(-2,3)$$



**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)



**18.** Plot the following points on a Cartesian plane.

E(-3, -3)



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





#### 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.



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

(0,5)

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

(0,0)



**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.

 $(\,-\,5,\,0)$ 

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

$$(-2, -3)$$

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

(-6, 0)

**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)

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

(b,0)



**31.** Plot the following points on a Cartesian plane.

B(-2,3)



**32.** Plot the following points on a Cartesian plane.

L. (5,-8)



# **33.** Plot the following points on a Cartesian plane.

U(6,4)



# **34.** Plot the following points on a Cartesian plane.

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

# **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.







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?

**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?



6. What is the general form of the points which lie

on X-axis ? Write any four points lie on X-axis.

