



MATHS

NCERT - NCERT MATHEMATICS(TAMIL 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. 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. 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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4. 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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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 abscissa 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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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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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. Plot at least six points in a graph sheet, each having the sum of its coordinates equal to 5.



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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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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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