MATHS

BOOKS - MBD

Co-Ordinate Geometry

Exercise

1. How will you describe the position of a table lamp on your study table to another person ?

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2. Street Plan : A city has two main roads which cross each other at the centre of the city. These two roads are along the North-South direction and East-West direction. All other streets of the city run parallel to these roads and are 200 m apart. There are about 5 streets in each direction. Using 1 cm = 200 m, draw a model of the city on your notebook. Represent roads/ streets by single lines. There are many cross-streets in your model. A particular cross-street is made by two streets, one running in the North - South direction and another in the East - West direction. Each cross street is referred to in the following manner : the 2^{nd} street running in the North -South direction and 5^{th} in the East - West direction meet at some crossing, then we

will call this crossstreet (2, 5). Using this convention find : how many cross-streets can be referred to as (4, 3).

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4. Write the answer of the following question : What is the name of horizontal and vertical lines drawn to

determine the position of any point in the cartesian plane ?

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5. Write the answer of the following question : What is the name of each part of the plane formed by these two lines ?

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6. Write the answer of the following question : Write the name of the point where these two lines intersect.

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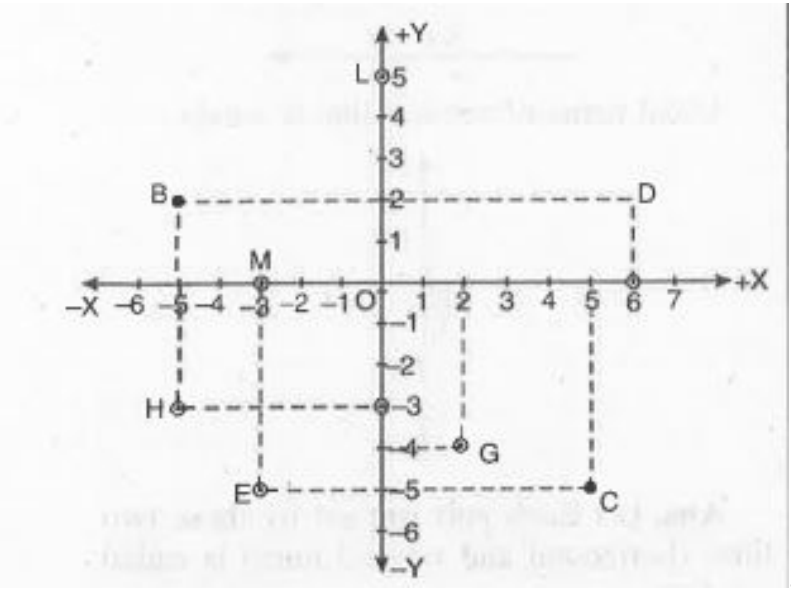
7. See Fig



, and write the following : The coordinates of B.

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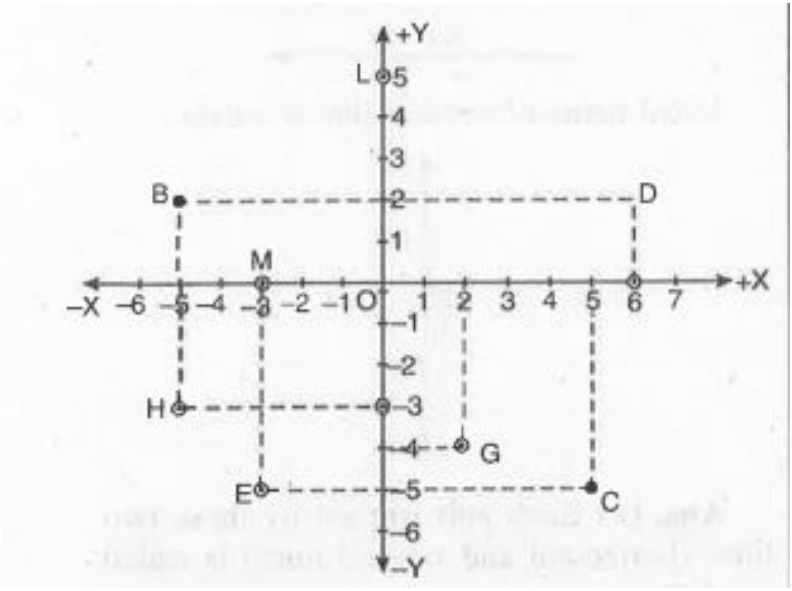
8. See Fig



, and write the following : The coordinates of C.

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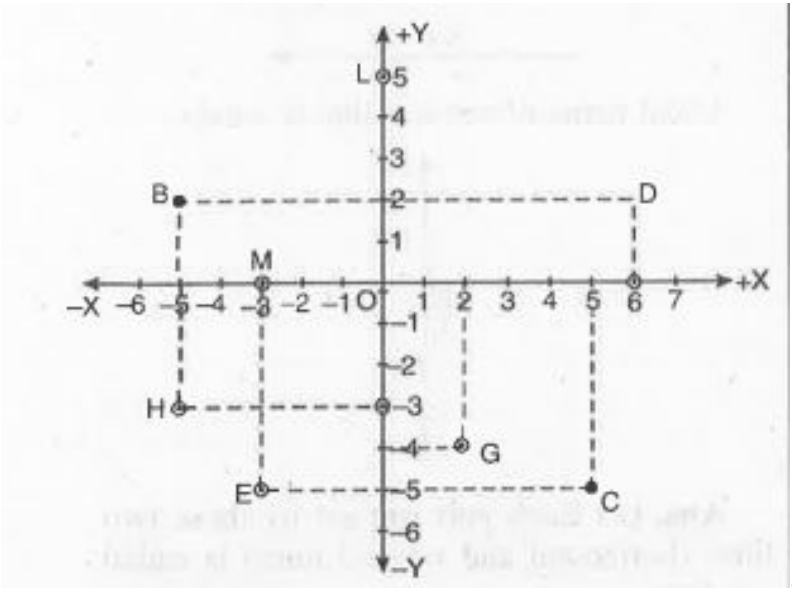
9. See Fig



, and write the following : The point identified by the coordinates $(-3, -5)$.

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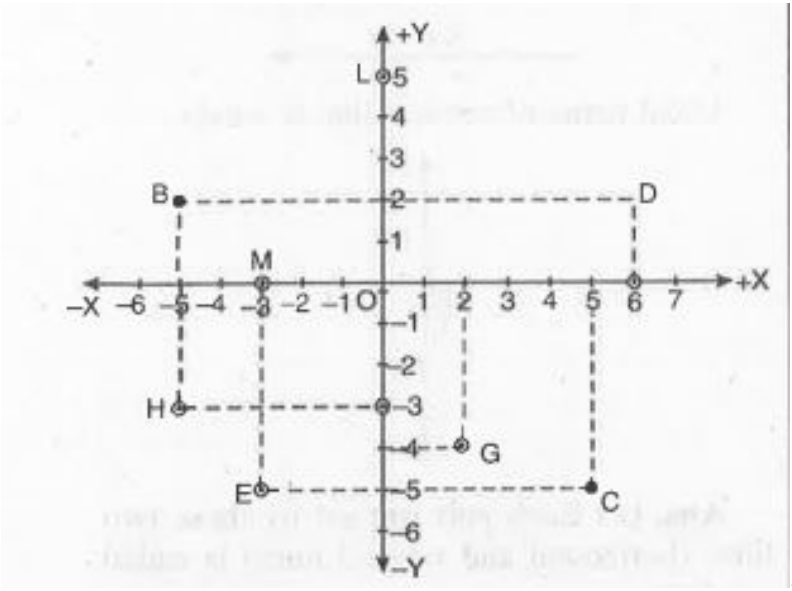
10. See Fig



, and write the following : The point identified by the coordinates $(2, -4)$.

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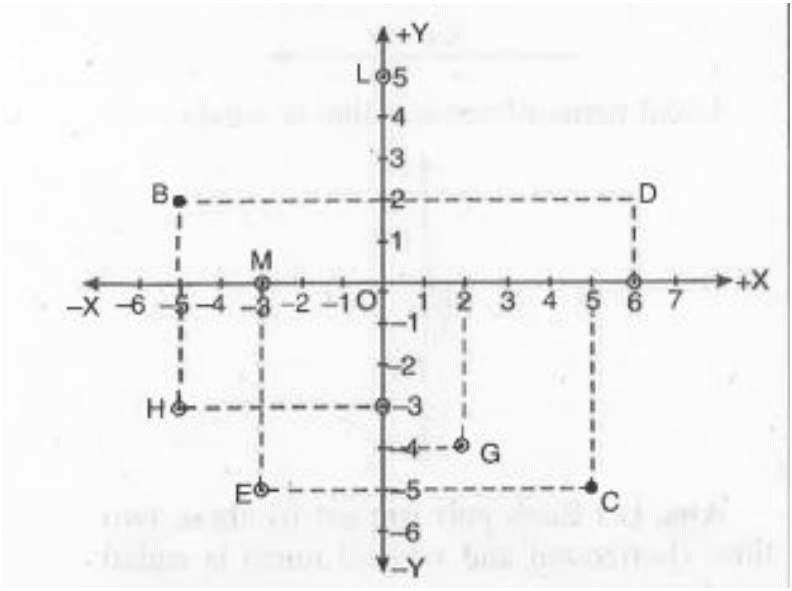
11. See Fig



, and write the following : The abscissa of the point D.

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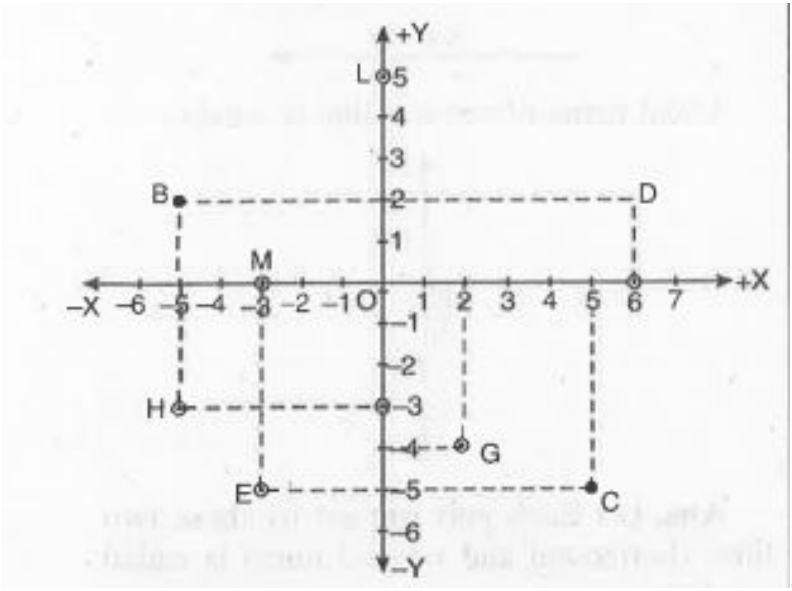
12. See Fig



, and write the following : The ordinate of the point H.

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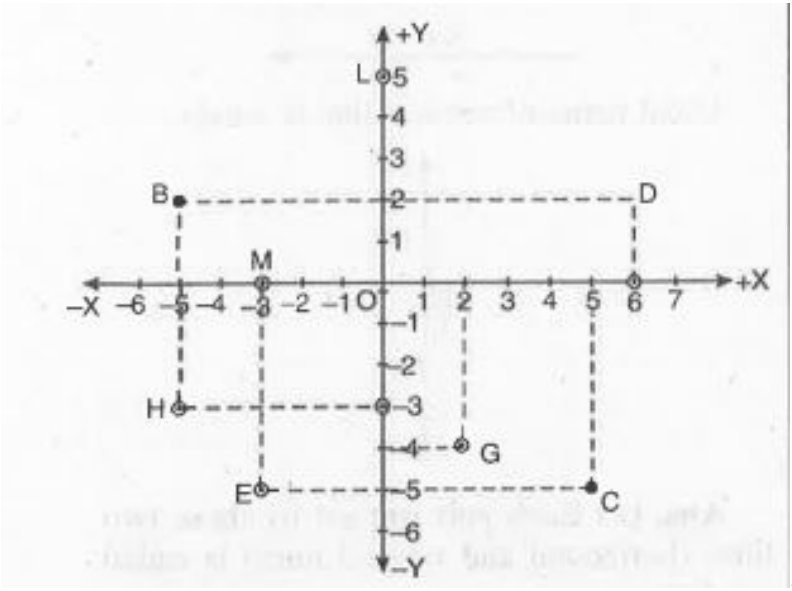
13. See Fig



, and write the following : The coordinates of the point L.

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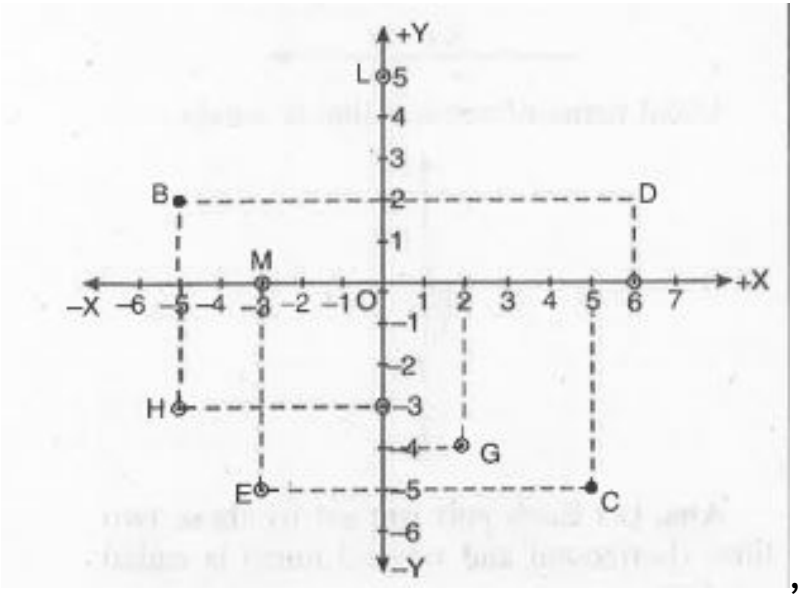
14. See Fig



, and write the following : The coordinates of the point M.

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15. In which quadrant or on which axis do each of the points $(-2, 4), (3, -1), (-1, 0), (1, 2)$ and

$(-3, -5)$ lie ? Verify your answer by locating them on the Cartesian plane.

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16. Plot the points (x, y) given in the following table on the plane, choosing suitable units of distance on the axes.

x	-2	-1	0	1	3
y	8	7	-1.25	3	-1

.

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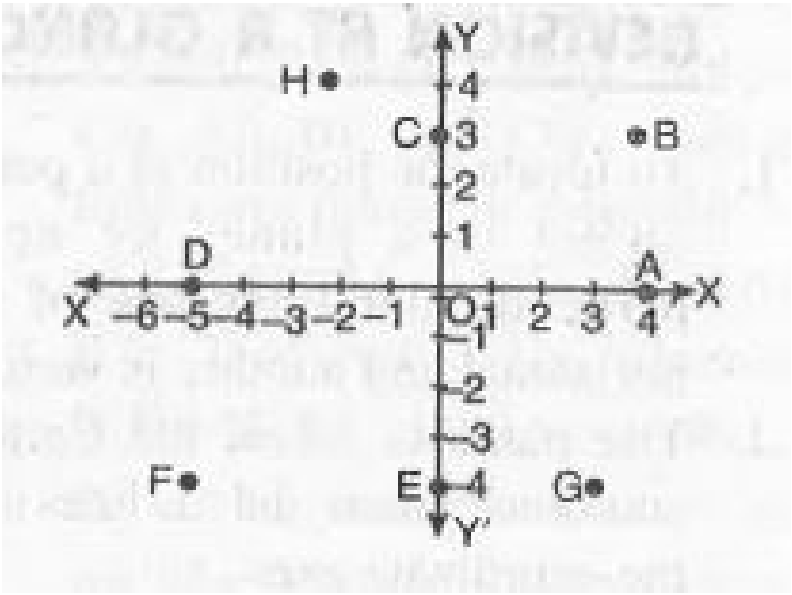
17. Find the coordinates of given points.



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18. Name the quadrant in which the point lies : $(5, -7)$.

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19. Name the quadrant in which the point lies : $(-8, -3)$.

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20. Name the quadrant in which the point lies : $(3, 6)$.

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21. Name the quadrant in which the point lies : $(-9, 2)$.

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22. Locate the points $(5, 0), (0, 5), (2, 5)(5, 2), (-3, 5), (-3, -5), (5, -3)$ and $(6, 1)$ in the cartesian plane.

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23. Plot these pairs of numbers as points in the cartesian plane : use the scale 1 cm = 1 unit on the axes.

x	-3	0	-1	4	2
y	7	1	-3	4	-3

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24. Plot the following points on a graph paper : P (4, 3).

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25. Plot the following points on a graph paper : Q(-2,4).

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26. Plot the following points on a graph paper : R(-2,-5).

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27. Plot the following points on a graph paper : S(6,-7).

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28. Plot the points $A(-2, 2), B(8, 2), C(4, -4)$ and $D(-6, -4)$ and join AB, BC, CD and DA. What figure do you obtain ?

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29. The points $A(4, 2), B(-2, 2)$ and $D(4, -2)$ are three vertices of rectangle ABCD. Plot these points on a graph paper and hence find the co-ordinates of vertex C.

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30. In Fig., coordinates of P are :

A. $(-4, 2)$

B. $(-2, 4)$

C. $(4, -2)$

D. $(2, -4)$.

Answer:

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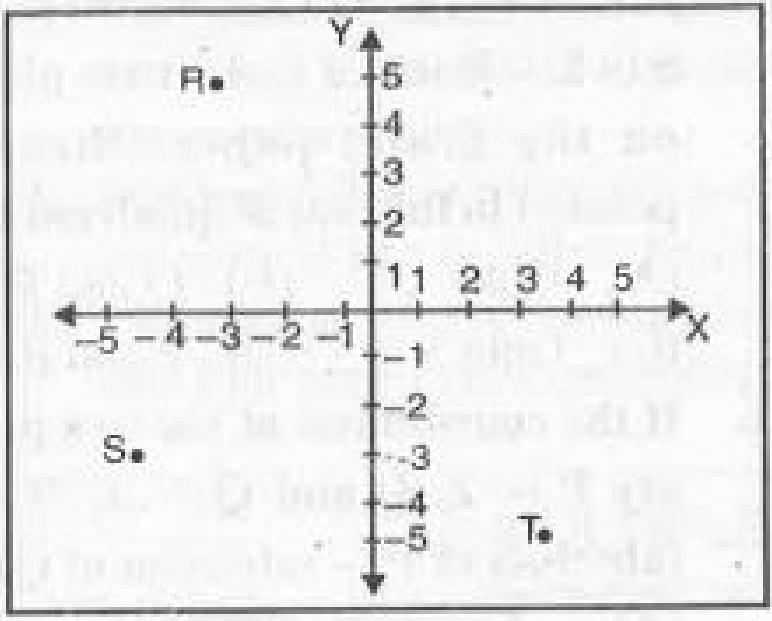
31. In fig., the point identified by the coordinates $(-5, -3)$ is :



A. T

B. R

C. L

D. S.

Answer:

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32. The point whose ordinate is 4 and which lies on y-axis is :

A. (4, 0)

B. (0, 4)

C. (1, 4)

D. (4, 2).

Answer:

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33. Which of the points $P(0, 3), Q(1, 0), R(0, -1), S(-5, 0), T(1, 2)$ do not lie on the x-axis ?

A. P and R only

B. Q and S

C. P,R and T

D. Q,S and T.

Answer:

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34. The point which lies on y-axis at a distance of 5 units in the negative direction of v-axis is :

A. (0, 5)

B. (5, 0)

C. $(0, -5)$

D. $(-5, 0)$.

Answer:

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35. The perpendicular distance of the point P (3, 4) from the y-axis is :

A. 3

B. 4

C. 5

D. 7

Answer:

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36. Write whether the following statement is True or False ? Justify your answer : Point (3, 0) lies in the first quadrant.

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37. Write whether the following statement is True or False ? Justify your answer : Points $(1, -1)$ and $(-1, 1)$ lie in the same quadrant.

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38. Write whether the following statement is True or False ? Justify your answer : The coordinates of a point whose ordinate is $-\frac{1}{2}$ and abscissa is 1 are $\left(-\frac{1}{2}, 1\right)$.

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39. Write whether the following statement is True or False ? Justify your answer : A point lies on y-axis at a distance of 2 units from the x-axis. Its coordinates are (2, 0).

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40. Write whether the following statement is True or False ? Justify your answer : $(-1, 7)$ is a point in the II quadrant.

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