



MATHS

BOOKS - SWAN PUBLICATION

COORDINATE GEOMETRY

Exercise 3 1

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 $1 \text{ cm} = 200 \text{ m}$, 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 $(3, 4)$.



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1. What is the name of horizontal and the vertical lines drawn to determine the position of any point in the cartesian plane.



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2. 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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3. Write the answer of the following question :

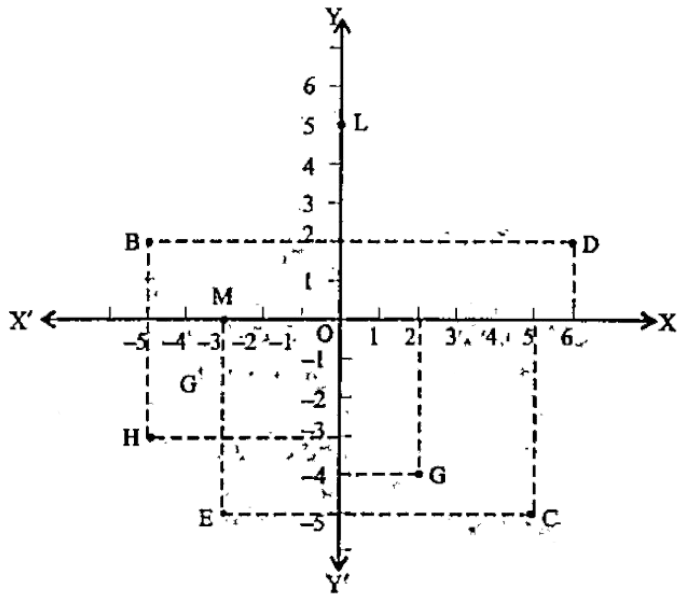
Write the name of the point where these two lines intersect.



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4. Write the following:

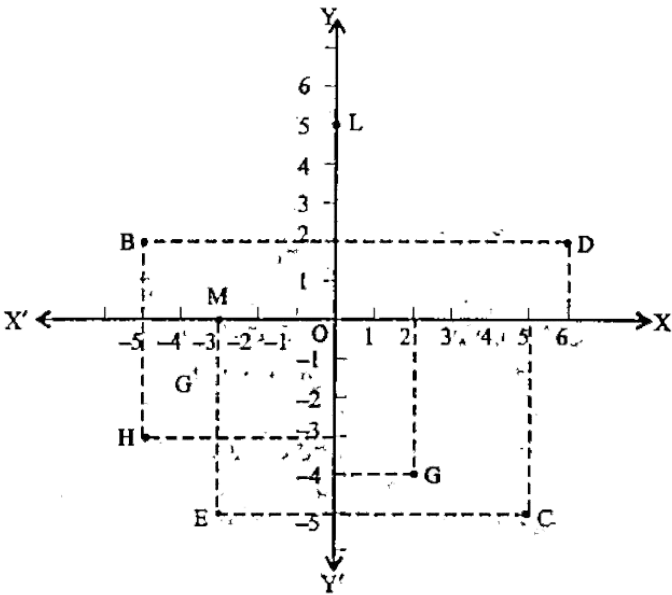
The coordinates of B.



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5. Write the following:

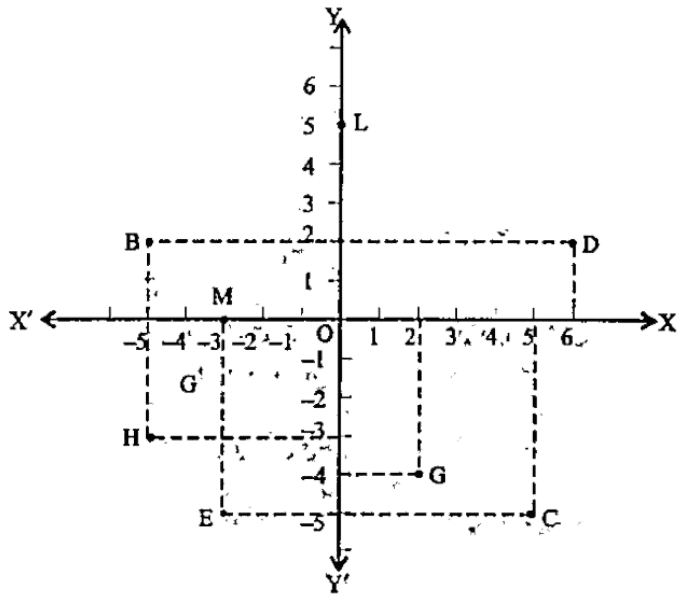
The coordinates of C.



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6. Write the following:

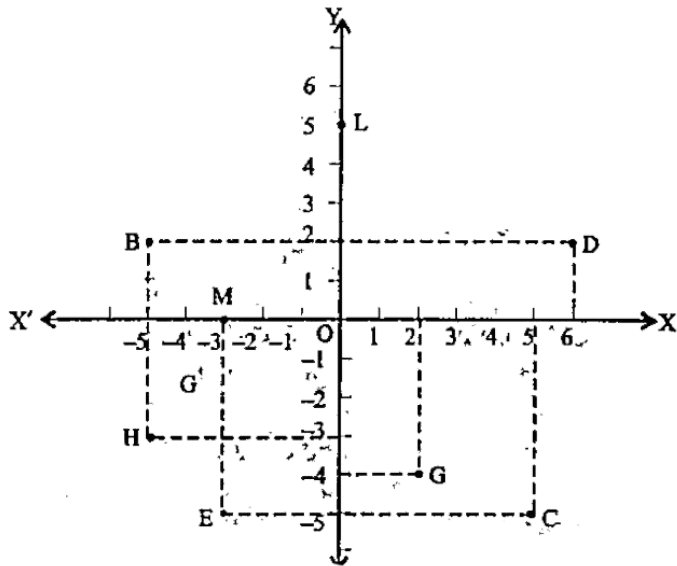
The point identified by the coordinates $(-3, -5)$.



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7. Write the following:

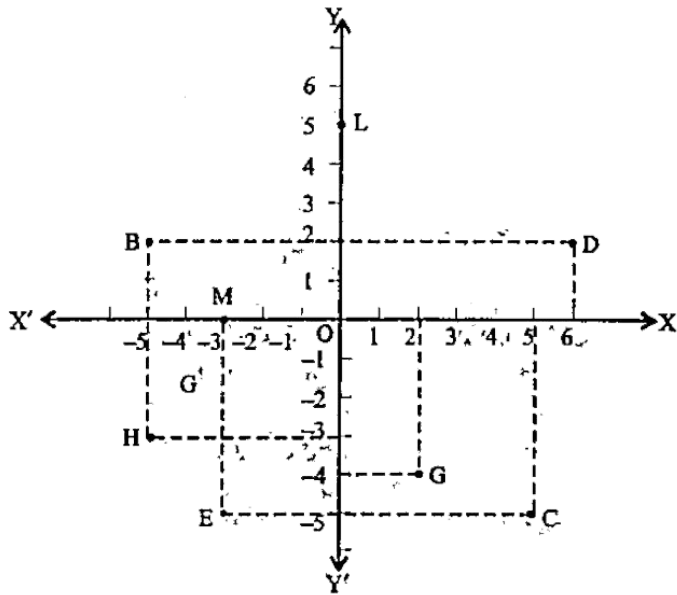
The point identified by the coordinates $(2, -4)$.



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8. Write the following:

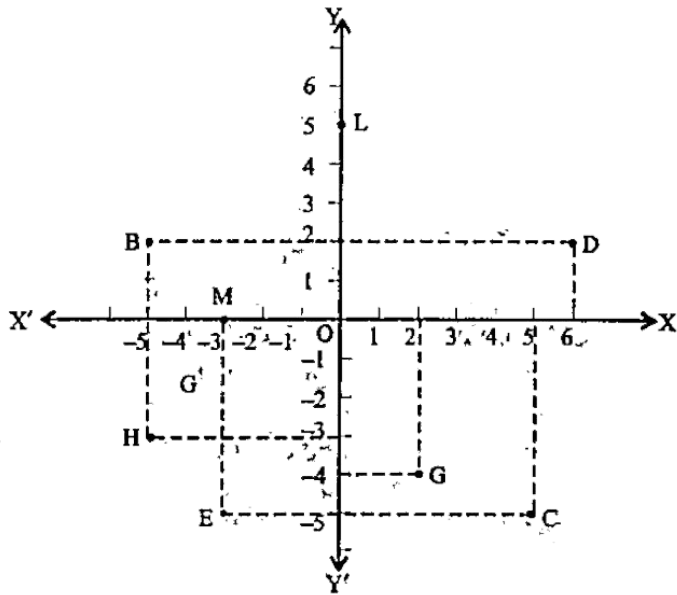
The abscissa of the point D.



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9. Write the following:

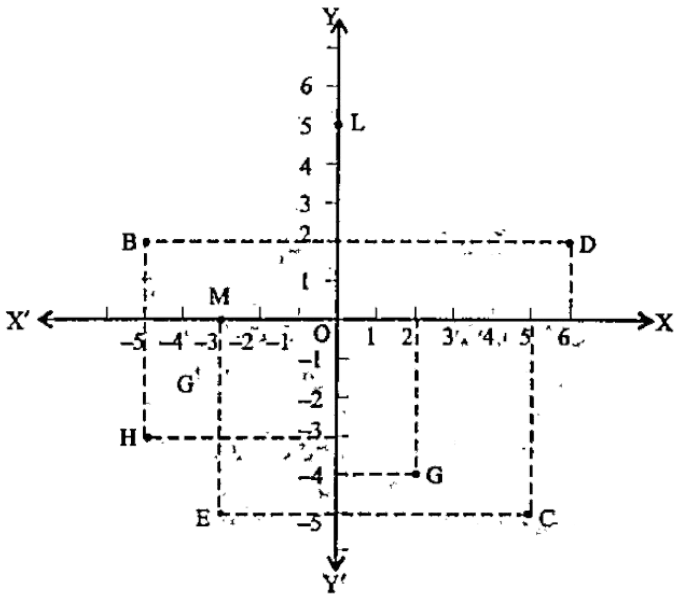
The ordinate of the point H.



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10. Write the following:

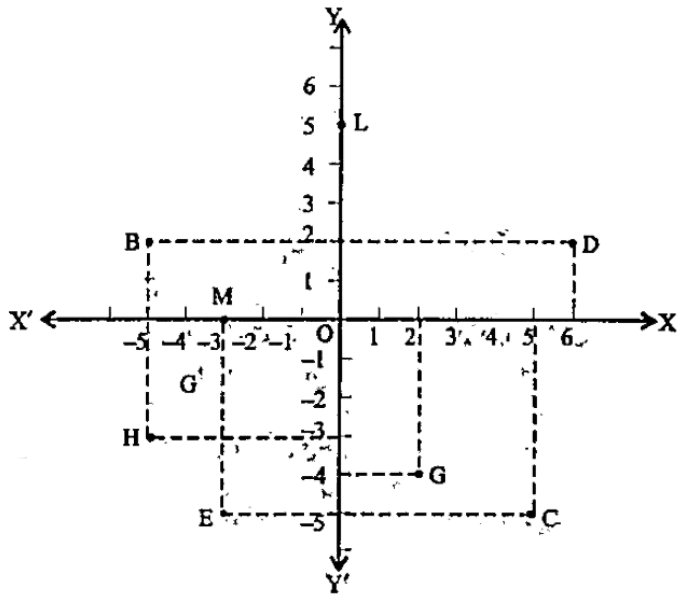
The coordinates of the point L.



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11. Write the following:

The coordinates of the point M.



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Exercise 3 3

1. 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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2. Plot the the graph of point's (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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Objective Type Questions

1. What are the co-ordinates of O, the origin ?



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2. What is the ordinate of every point on the x-axis



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3. What is the abscissa of every point on the y-axis.



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4. Point $(3, 5)$ lies in which quadrant ?



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5. Point $(-4, -3)$ lies in which quadrant ?



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6. Point $(-5, 7)$ lies in which quadrant.



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7. Point $(3, -5)$ lies in which quadrant,



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8. Does the point $(3,5)$ lie above the y -axis or below the x -axis ?



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9. Does the point $(-2,-5)$ lie to the right or left of y -axis?



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10. The point $(-2, 0)$ lies on which axis ?



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11. The point $(0, -4)$ lies on which axis ?



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12. Does the point $(-1, -1)$ lies on the x-axis ?



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13. If a point has co-ordinates $(0, -5)$, does it lie on the x-axis or y-axis?



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Objective Type Questions Fill In The Blanks

1. If a point is in the 4th quadrant, then the point will be in the form



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2. If a point is in the 2nd quadrant, then the point will be in the form



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3. The co-ordinate axis divide the plane into four parts called



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4. The horizontal line of coordinate axis is called the

and the vertical line is called the



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5. If the abscissa of a point is x and the ordinate is y then

are called coordinates of the point.



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6. The coordinates of a point in the third quadrant are of the form



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7. The coordinates of a point in the first quadrant are of the form



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