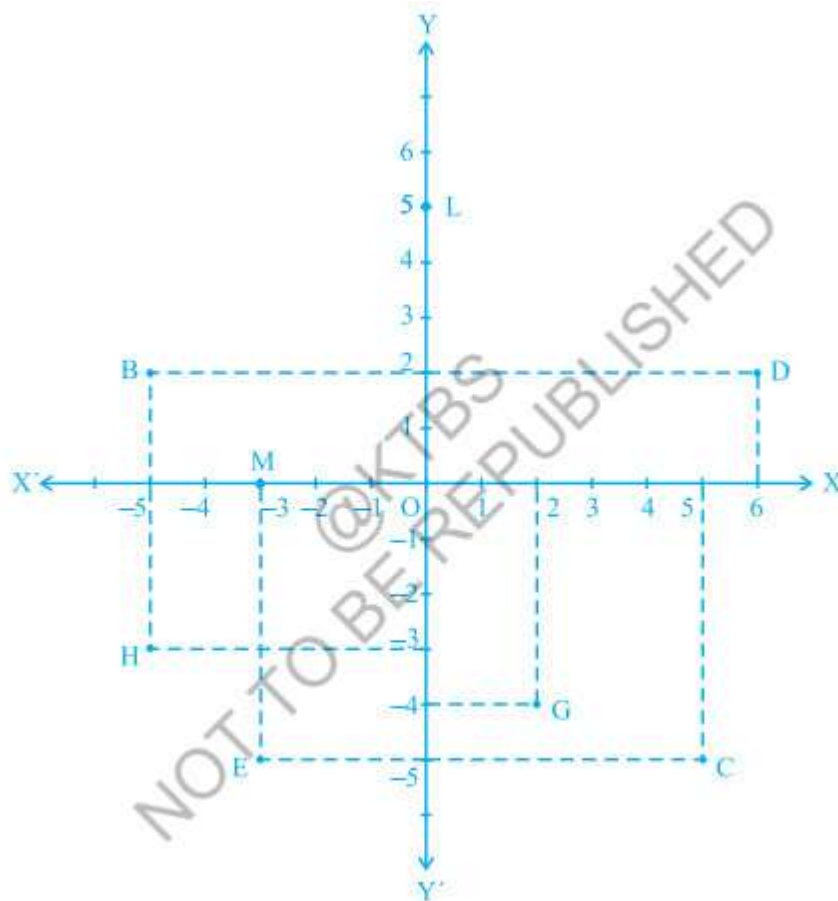


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**FA-2 Revision for Class IX 2024-25**

1. What is the name of horizontal and the vertical lines drawn to determine the position of any point in the Cartesian plane?
2. Write the name of the point where the two – x-axis and y-axis meet.
3. (+, -) represents point in which of the quadrants?
4. (-, +) represents point in which of the quadrants?
5. Watch the following figure and write the following:



- i. The coordinates of H.
- ii. The coordinates of C.
- iii. The point identified by the coordinates (-3, -5)
- iv. The point identified by the coordinates (2, -4)
- v. The abscissa of the point B.
- vi. The ordinate of the point D.
- vii. The coordinates of the point L.
- viii. The coordinates of the point M.

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6. The cost of a notebook is twice the cost of a pen. Which equation is correct?  
a)  $x = y$                       b)  $x = 2y$                       c)  $x = 3y$                       d)  $x + 2y = 0$
7. A linear equation in one two variables has how many solutions?  
a) One solution      b) Two solutions      c) Many solutions      d) No solution
8. Express the following linear equations in the form of  $ax + by + c = 0$  and indicate the values of a, b and c in each case.
- i.  $2x = -5y + 3$
  - ii.  $2x - 3y = 6$
  - iii.  $2x = 8y + 13$
  - iv.  $2x + 3y = -8$
  - v.  $x + y = 4$
  - vi.  $x + 2y = -4$
  - vii.  $y - 3x - 10 = 0$
  - viii.  $10y = 3x - 2$
9. Write **any two** solutions for each of the following equations:
- i.  $2x + y = 7$
  - ii.  $4x + 3y = 9$
  - iii.  $9x + 2y = 19$
  - iv.  $x - 4y = 10$
  - v.  $4x + y = 6$
  - vi.  $6x = 10y - 4$
  - vii.  $4x + 3y = 12$
  - viii.  $2x + 5y = 0$
  - ix.  $3y + 4 = 0$
  - x.  $x = 4y$
10. Find the value for  $k$  if  $x = 9$  and  $y = 2$  is a solution for equation  $4x - 5ky = 16$ .
11. Solve the following equations and check your results
- i.  $3x = 2x + 18$
  - ii.  $5t - 3 = 3t - 5$
  - iii.  $5x + 9 = 5 + 3x$
  - iv.  $4z + 3 = 6 + 2z$
  - v.  $2x - 1 = 14 - x$