MATHS

BOOKS - CBSE COMPLEMENTARY MATERIAL MATHS (HINGLISH)

CO-ORDINATE GEOMETRY

Exercise Part A

1. The abscissa of a point is the distance of the point from

A. x-axis

B. y-axis

C. origin

D. None of these

Answer: B

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2. The y-coordinate of a point is the distance of that point from

A. x-axis

B. y-axis

C. origin

D. None of these

Answer: A

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3. If both the coordinates of a point are negative then that point will lie in

A. First quadrant

B. Second quadrant

C. Third quadrant

D. Fourth quadrant

Answer: C

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4. If abscissa of a point is zero then that point will lie

A. on x-axis

B. on y-axis

C. at origin

D. in 1st quadrant

Answer: B

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5. If x>0 and y<0, then the point $(x, -y)$ lies in

A. I quadrant

B. II quadrant

C. III quadrant

D. IV quadrant

Answer: A

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6. Point (a, o) lies

A. on x-axis

B. on y-axis

C. in third quadrant

D. in fourth quadrant

Answer: A

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7. of abscissa and ordinate of a point in the fourth quadrant are respectively.

A. $+, +$

B. $-, -$

C. $-, +$

D. $+, -$

Answer: D

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8. Ordinate of a point is positive in

A. I and IV quadrants

B. 1 quadrant only

C. I and II quadrants

D. 1 and III quadrants

Answer: C

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9. The point which lies on y-axis at a distance of 10 units in the negative direction of y-axis is

A. (10,0)

B. (0,10)

C. (-10,0)

D. (0,-10)

Answer: D

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10. The point whose abscissa and ordinate have different signs will lie in

A. I and II quadrants

B. I and III quadrants

C. II and III quadrants

D. II and IV quadrant

Answer: D

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

A. P and R only

B. Q and S only

C. P, R and T

D. Q, S and T

Answer: C

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12. If the coordinates of the two points are P(-2,3) and Q(-3,5) , then (Abscissa of P)-(Abscissa of Q) is

A. -5

B. 1

C. -1

D. -2

Answer: B

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13. Point

$(1, 1), (1, -1), (-1, 1), (-1, -1)$

A. lie in I quadrant

B. lie in III quadrant

C. lie in I and III quadrants

D. do not lie in the same quadrant

Answer: D

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14. The point of intersect of the coordinates axes is: ordinate (b) abscissa quadrant origin (d) origin

A. Abscissa

B. Ordinate

C. Quadrant

D. Origin

Answer: D

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15. The abscissa and ordinate of the origin are

(0, 0) (b) (1, 0) (c) 0, 1) (d) 1, 1)

A. $1, 0$

B. $1, 1$

C. $0, 1$

D. $0, 0$

Answer: D

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16. The measure of the angle between the coordinate axes is 0^0 (b) 90^0 (c) 180^0 (d) 360^0

A. 0°

B. 90°

C. 180°

D. 270°

Answer: B

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17. The perpendicular distance of the point p(-4, -3) from x-axis is

A. -4

B. -3

C. 4

D. 3

Answer: D

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18. The perpendicular distance of the point p(-7,2) from y-axis is

A. -7

B. 7

C. 2

D. None of these

Answer: B

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19. The distance of the point p(3,4) from the origin is

A. 3

B. 4

C. 7

D. 5

Answer: D

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20. Which of the points A(-5, 0), B(0, -3), C(3, 0), D(0,4) are closer to the origin ?

A. A

B. B

C. D

D. Points B and C both

Answer: D

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21. The point whose abscissa is 5 and which lie on x-axis is_____.

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22. x-coordinate of a point is its distance from the x-axis.

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23. The co-ordinates of a point describe the point in the place uniquely.

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24. The points with coordinates (3,4) and (4,3) are at same position of the plane.

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25. Y-coordinate of a point is also called abscissa.

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26. The coordinates of a points, which lies on negative x-axis at a distance of 6 units from y-axis, are (-6,0).

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27. In which quadrant do the given points lie.

i) $(3, -2)$

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28. In which quadrant do the given points lie.

ii) $(17, -30)$

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29. In which quadrant do the given points lie.

iii) $(-2, 5)$

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30. In which quadrant do the given points lie.

iv) $(-50, -20)$

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31. In which quadrant do the given points lie.

v) $(10, 100)$

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32. In which quadrant do the given points lie.

vi) $(-18, 80)$

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33. On which axis do the given points lie:

i) $(11, 0)$

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34. On which axis do the given points lie:

ii) $(-11, 0)$

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35. On which axis do the given points lie:

iii) $(0, 14)$

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36. On which axis do the given points lie:

(iv) $(0, -100)$

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37. The abscissa and ordinate of a pointAare-3and-5 respectively then write down the coordinate of A.

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38. Is P(7,0) and Q (0,7) represent the same point ?

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39. In which quadrant x coordinate is negative ?

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40. Name the figure formed when we plot the points (0, 0), (4,4) and (0,4) on a graph paper.

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41. In which quadrant, does the point A (x, y) with values $x>0$ and $y>0$ exists.

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42. Write the coordinates os the fourth vertex of a square when three of its vertices are given by (1,2) (5,2) (5, -2).

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43. If abscissa of point A is positive & ordinate is negative then in which quadrant do A lie?

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44. Write the coordinates of a point whose perpendicular distance from x-axis is 5 units & perpendicular distance from y-axis is 3 & it lies in II quadrant.

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45. Draw the Cartesian plane on a graph paper and plot the given points.

i) $A(3, 5)$

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46. Draw the Cartesian plane on a graph paper and plot the given points.

ii) $B(-7/2, 0)$

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47. Draw the Cartesian plane on a graph paper and plot the given points.

iii) $C(2, -6)$

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48. Draw the Cartesian plane on a graph paper and plot the given points.

(iv) $D(-6, -4)$

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49. Draw the Cartesian plane on a graph paper and plot the given points.

$E(0, -5/2)$

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50. Draw the Cartesian plane on a graph paper and plot the given points.

$F(8, 0)$

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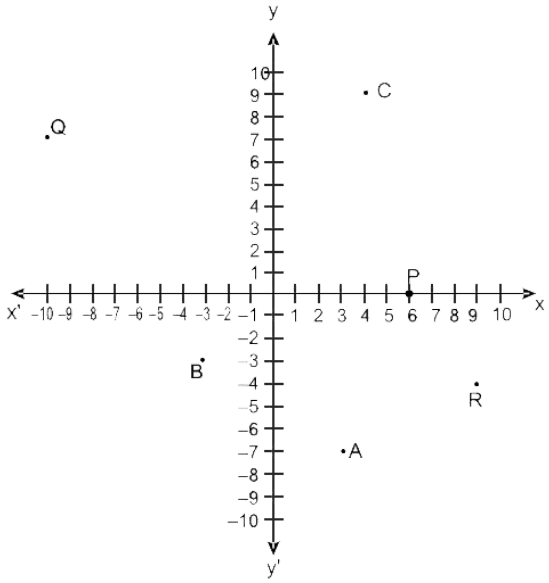
51. Write the coordinates of each of points in the given figure.

A, B, C, P, Q, R



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52. Point P (4, 3) is in the first quadrant. Find the coordinate of the point Q, opposite to P in fourth quadrant.

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53. Find the distance of point (8, 3) from x axis & y axis.

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54. Write the name of the figure formed by joining the points A (-3, 0), B (0, 3) and C (3, 0) in the cartesian plane.

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55. Write the coordinates of the point that lies on y-axis and is at a distance of 2 units in upward direction.

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56. If the mirror image of a point (x, y) about x-axis is (x, -y) then write the mirror image of the point S (-5, 7) about x-axis is.

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57. Find the distance of the point P (4, 2) from origin.

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58. Write the mirror image of (4, -3) about y-axis.

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Exercise Part A Fill In The Blanks

1. The coordinate axes divide the plane info four parts which are called_____

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2. If the coordinates of a point are (-2, 5), then its ordinate is and its abscissa is. _____

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3. The point $(200, -111)$ lies in the _____ quadrant.

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4. The abscissa of any point on the y-axis is _____

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5. The ordinate of every point on the x-axis is

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6. The points (0,0), (0,4) and (4,0) form a/an _____ triangle .

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7. If (x,y) represents a point and $xy > 0$, then the point may lie in _____ or _____ quadrant .

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8. The points with coordinates $(3, -1)$ and $(-1, 3)$ are at _____ (same/different) positions of the coordinate plane.

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9. If the ordinate of points 7 and abscissa is -5, then its coordinates are _____.

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Exercise Part C

1. Draw a line segment on a graph paper whose end points lies in first quadrant and third quadrant. Write the coordinates of its end points and mid point of line segment.

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2. Plot the points A (2, 4) & B (2, -5) whose x-coordinates are same. Is this line AB parallel to

any of the axes. If yes, to which axis is it parallel?

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3. Plot the points P (2, -3) & Q (-5, -3) whose ordinates are same. To which axis the line P Q is parallel?

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4. Plot the points A (7, 6) & B (7, -6) on graph paper. Join them & answer the following :

(i) Write the coordinate of the point where line AB cuts the x-axis?

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5. Plot the points A (7, 6) & B (7, -6) on graph paper. Join them & answer the following :

(ii) To which axis, line AB is parallel ?

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6. Draw a triangle ABC on graph paper having the coordinates of its vertices as A (-2, 0), B (4, 0) and C (1,5). Also find the area of triangle.

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7. If we plot the points P(5, 0), Q (5, 5), R(-5, 5) and S (-5, 0), which figure will we get? Name the axis of symmetry of this figure?

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8. Find the coordinates of a point which is equidistant from the two points (-4, 0) and (4, 0). How many of such points are possible satisfying the condition?

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9. Draw a quadrilateral with vertices A (4, 3), B(-4, 3), C(-4, -3) and D(4, -3). Draw its diagonals and write the coordinates of the point where the diagonals cut each other?

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10. A rectangular field is of length 10 units & breadth 8 units. One of its vertex lie on the origin. The longer side is along x-axis and one of its vertices lie in first quadrant. Find all the vertices.

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11. Plot the point B (5, 3), E(5, 1), S(0, 1) and T(0, 3) and answer the following:

i) Join the points and name the figure obtained.

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12. Plot the point B (5, 3), E(5, 1), S(0, 1) and T(0, 3) and answer the following:

ii) Find the area of figure.

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Practice Test

1. In which quadrant, the point (x, y) will lie? (Where x is a positive and y is a negative number).

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2. Write the y-coordinate of a point which lies on x-axis.

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3. Find the value of x and y if:

(a) $(x - 4, 7) = (4, 7)$

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4. Find the value of x and y if:

(b) $(1, 2y - 3) = (1, 7)$

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5. What is the distance of a point $(7, 6)$ from x-axis and y-axis ?

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6. Plot the following points in Cartesian plane.

$(-3, 5), (-2, 0), (-4, 0)$

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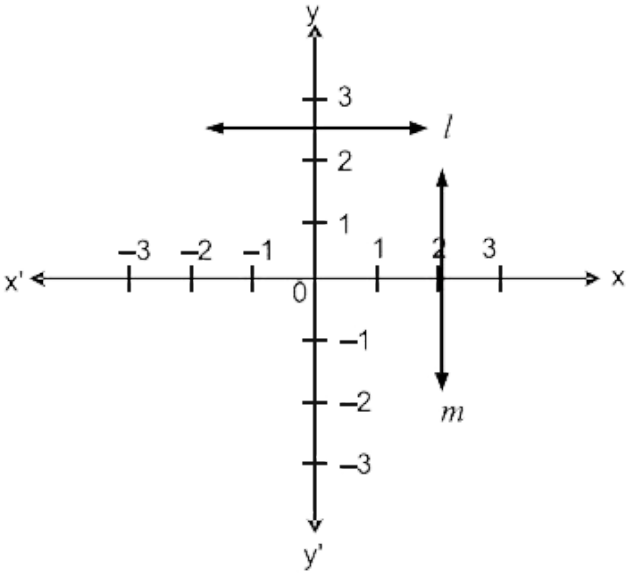
7. Write the equations of line l and m as shown in the figure. Also name the line which is represented by $x = 0$.



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8. There are three points $O(0, 0), A(4, 0)$ and $C(0, 6)$. Find the coordinates of the fourth point B such that OABC forms a rectangle.

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9. The base AB of two equilateral triangles ABC and ABC' with side $2a$ lies along the X -axis such that the mid-point of AB is at the origin as shown in Fig. 14.4. Find the

coordinates of the vertices C and C' of the triangles. (FIGURE)

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