MATHS

NCERT - NCERT Maths(Telugu)

CO-ORDINATE GEOMETRY

Exercise

1. The set of intelligent students in a class is

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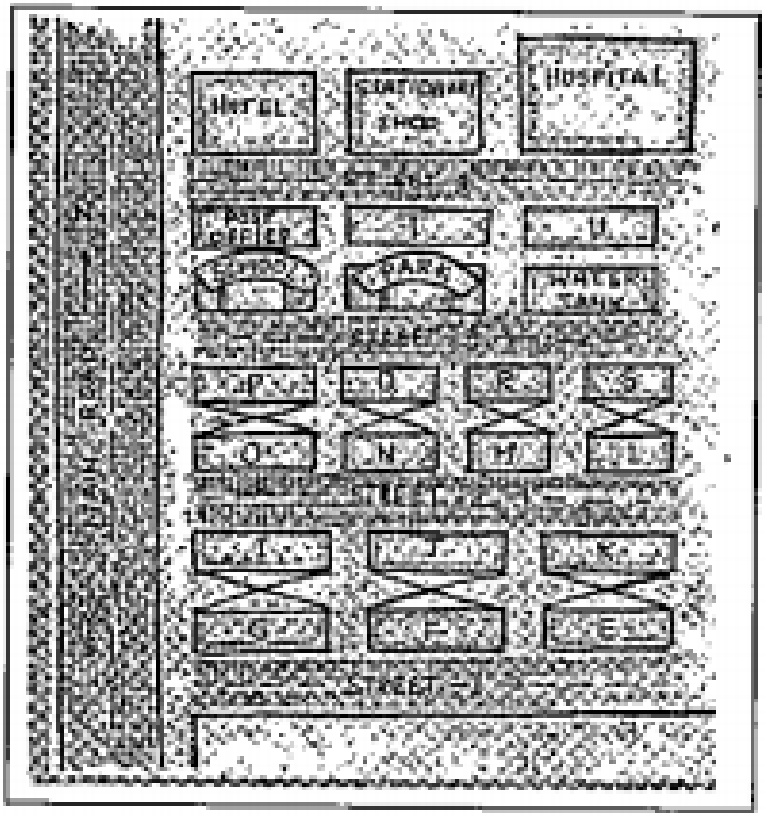
2. In a locality, there is a main road along North-South direction. The map is given below. With the help of the pic ture answer the following questions. (Start from main road to different street and head should be in east) : What is there on the 3rd place on the left side

in street no. 3 ?



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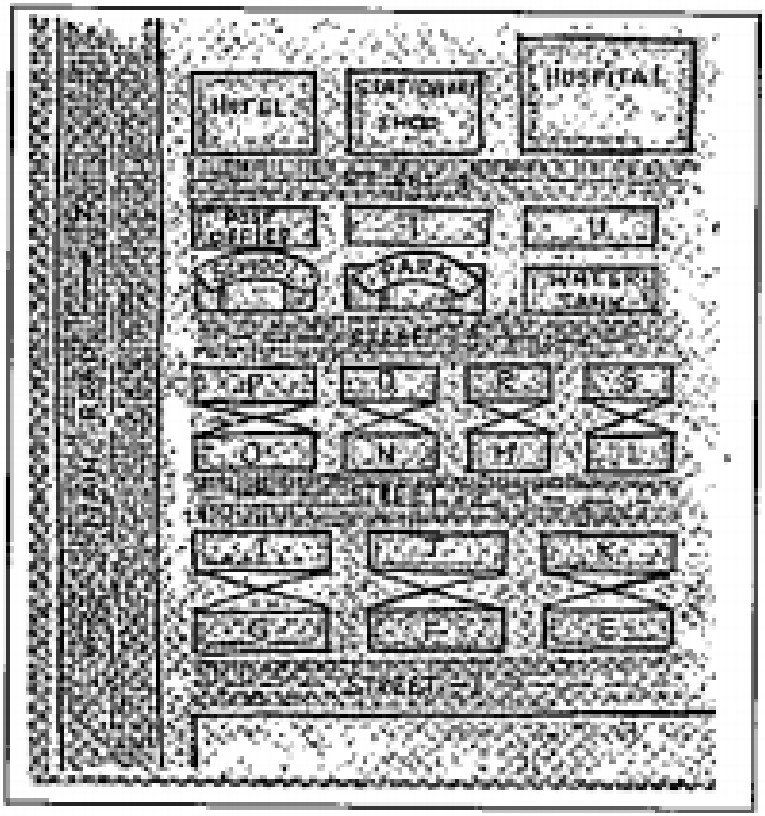
3. In a locality, there is a main road along North-South direction. The map is given below. With the help of the pic ture answer the following questions. (Start from main road to different street and head should be in east) : Find the name of the 2nd house which is in

right side of street 2.



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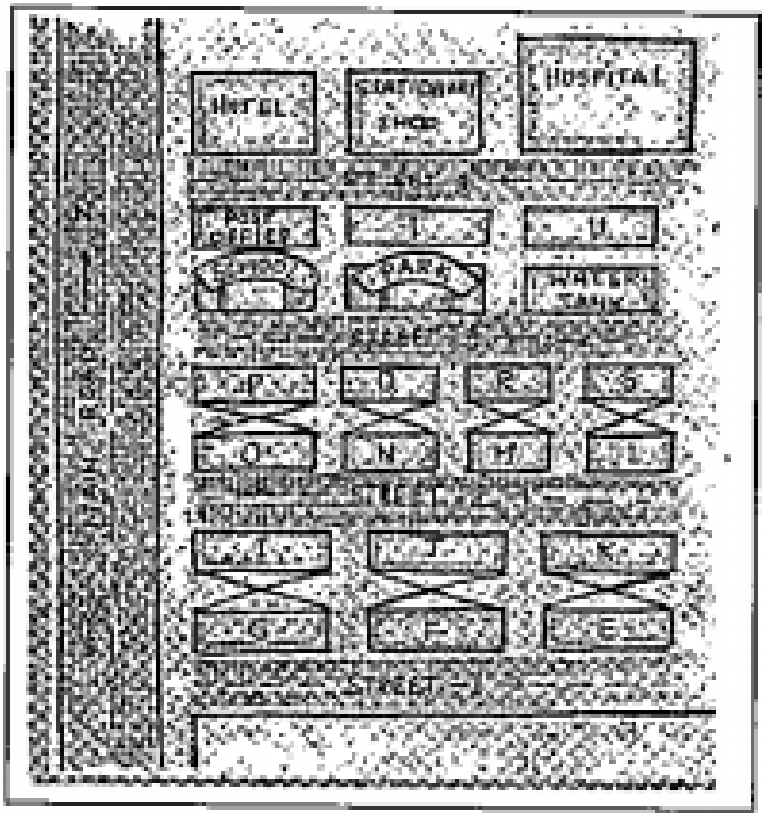
4. In a locality, there is a main road along North-South direction. The map is given below. With the help of the pic ture answer the following questions. (Start from main road to different street and head should be in east) :

Locate the position of Mr. K'S house.



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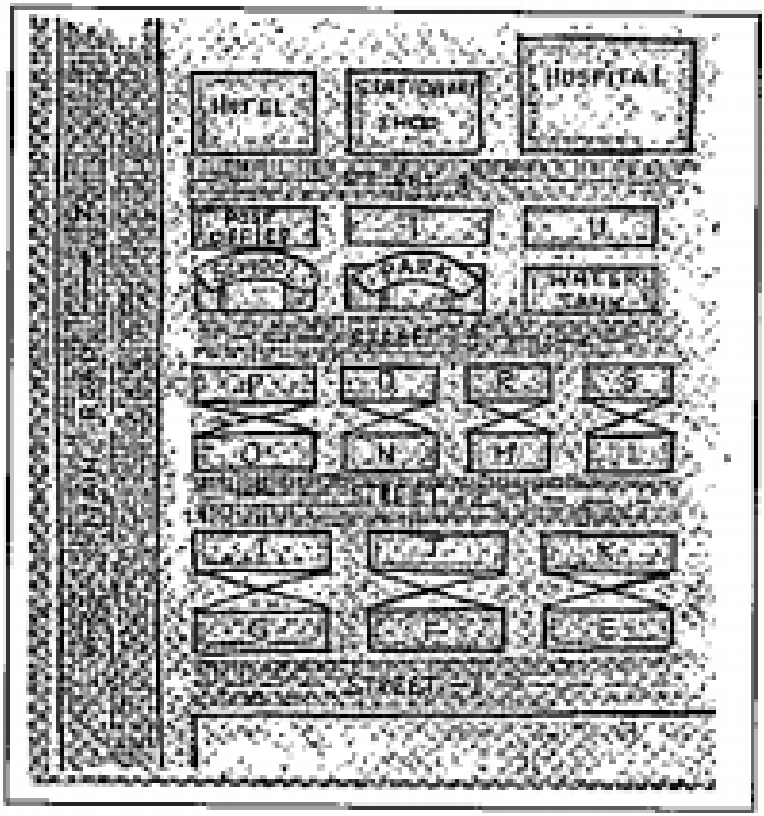
5. In a locality, there is a main road along North-South direction. The map is given below. With the help of the pic ture answer the following questions. (Start from main road to different street and head should be in east) :

How do you locate the position of the post office?



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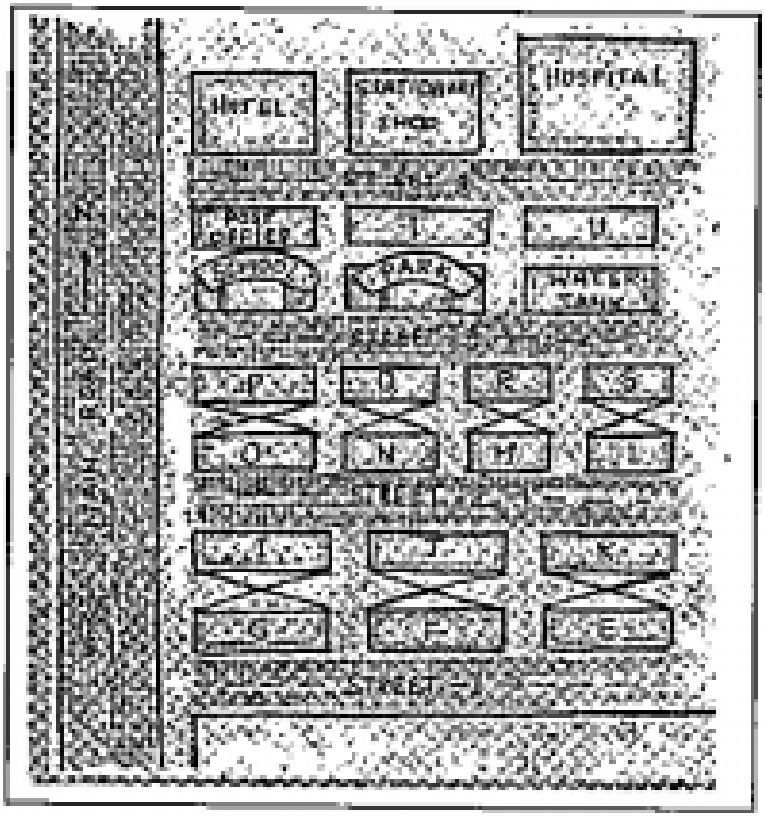
6. In a locality, there is a main road along North-South direction. The map is given below. With the help of the pic ture answer the following questions. (Start from main road to different street and head should be in east) :

How do you locate the hospital?



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7. Among the points given below some of the poitns lie on X-axis. Identify them

(i) (0,5) (ii) (0,0) (iii) (3,0)

(iv) (-5,0) (v) (-2,-3) (vi) (-6,0)

(vii) (0,a) (viii) (b,0)

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8. Among the points given below some of the poitns lie on X-axis. Identify them

(i) (0,5) (ii) (0,0) (iii) (3,0)

(iv) (-5,0) (v) (-2,-3) (vi) (-6,0)

(vii) (0,a) (viii) (b,0)

9. Among the points given below some of the poitns lie on X-axis. Identify them

(i) (0,5) (ii) (0,0) (iii) (3,0)

(iv) (-5,0) (v) (-2,-3) (vi) (-6,0)

(vii) (0,a) (viii) (b,0)

10. Among the points given below some of the poitns lie on X-axis. Identify them

(i) (0,5) (ii) (0,0) (iii) (3,0)

(iv) (-5,0) (v) (-2,-3) (vi) (-6,0)

(vii) (0,a) (viii) (b,0)

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11. Among the points given below some of the poitns lie on X-axis. Identify them

(i) (0,5) (ii) (0,0) (iii) (3,0)

(iv) (-5,0) (v) (-2,-3) (vi) (-6,0)

(vii) (0,a) (viii) (b,0)

12. Among the points given below some of the poitns lie on X-axis. Identify them

(i) (0,5) (ii) (0,0) (iii) (3,0)

(iv) (-5,0) (v) (-2,-3) (vi) (-6,0)

(vii) (0,a) (viii) (b,0)

13. Among the points given below some of the poitns lie on X-axis. Identify them

(i) (0,5) (ii) (0,0) (iii) (3,0)

(iv) (-5,0) (v) (-2,-3) (vi) (-6,0)

(vii) (0,a) (viii) (b,0)

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14. Among the points given below some of the poitns lie on X-axis. Identify them

(i) (0,5) (ii) (0,0) (iii) (3,0)

(iv) (-5,0) (v) (-2,-3) (vi) (-6,0)

(vii) (0,a) (viii) (b,0)

15. Among the points given below some of the poitns lie on X-axis. Identify them

(i) (0,5) (ii) (0,0) (iii) (3,0)

(iv) (-5,0) (v) (-2,-3) (vi) (-6,0)

(vii) (0,a) (viii) (b,0)

16. Which axis the points such as (0,x) (0,y) (0,2) and (0,-5) lie on? Why?

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17. What is the general form of the points which lie on X-axis?

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18. 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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19. 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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20. 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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21. 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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22. 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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23. 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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24. 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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25. 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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26. Write the abscissae 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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27. Write the abscissae 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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28. Write the abscissae 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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29. Write the abscissae 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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30. Write the abscissae 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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31. 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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32. 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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33. 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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34. 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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35. 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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36. 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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37. 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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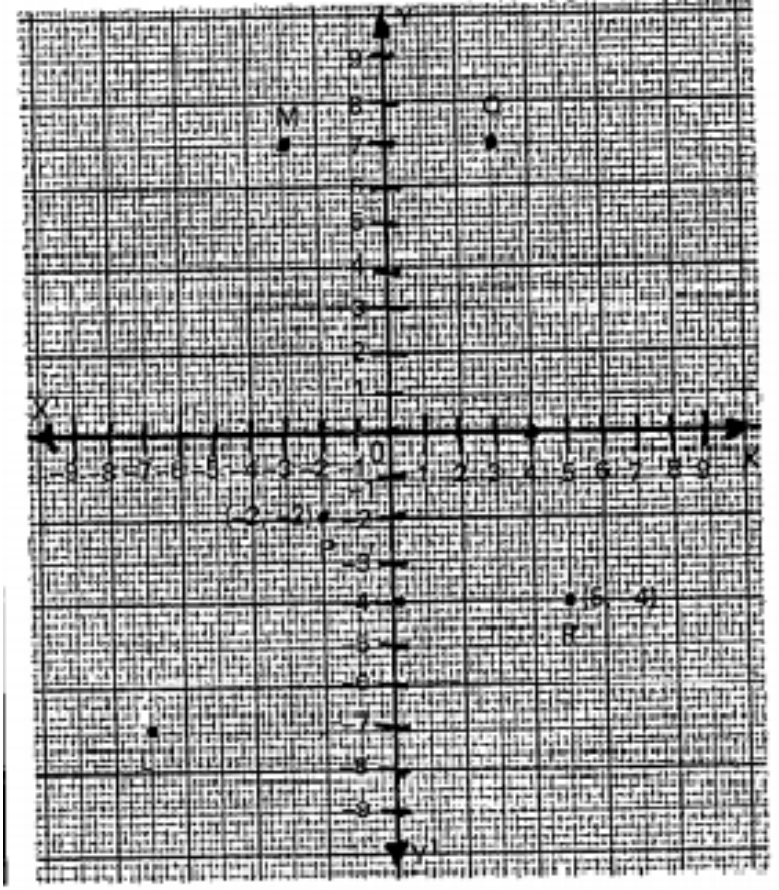
38. Write the following based on the graph :

The ordinate of L.



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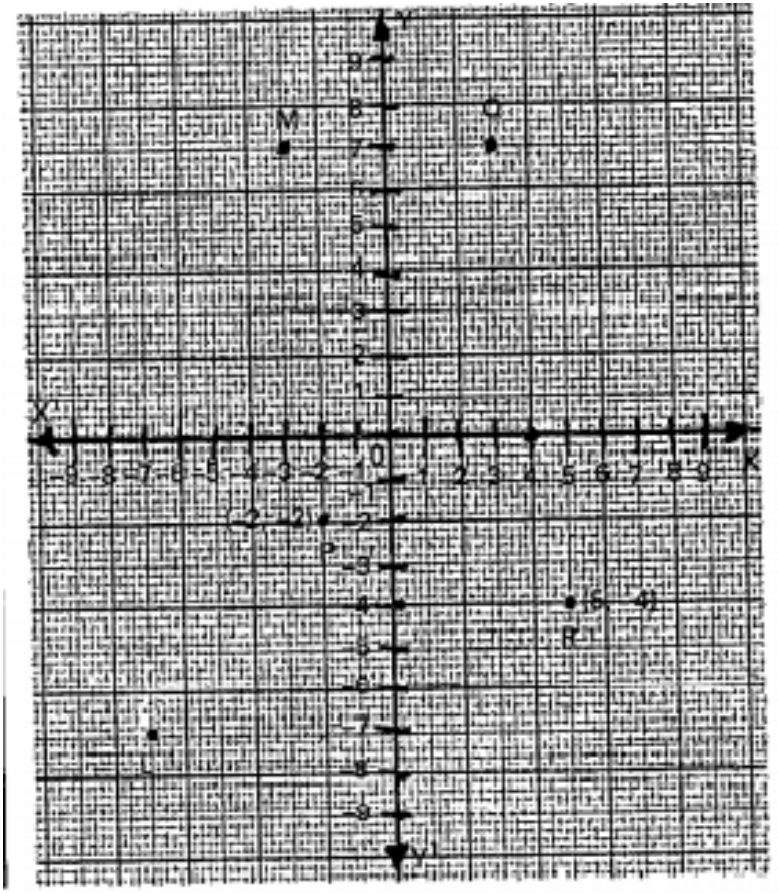
39. Write the following based on the graph :

The ordinate of Q.



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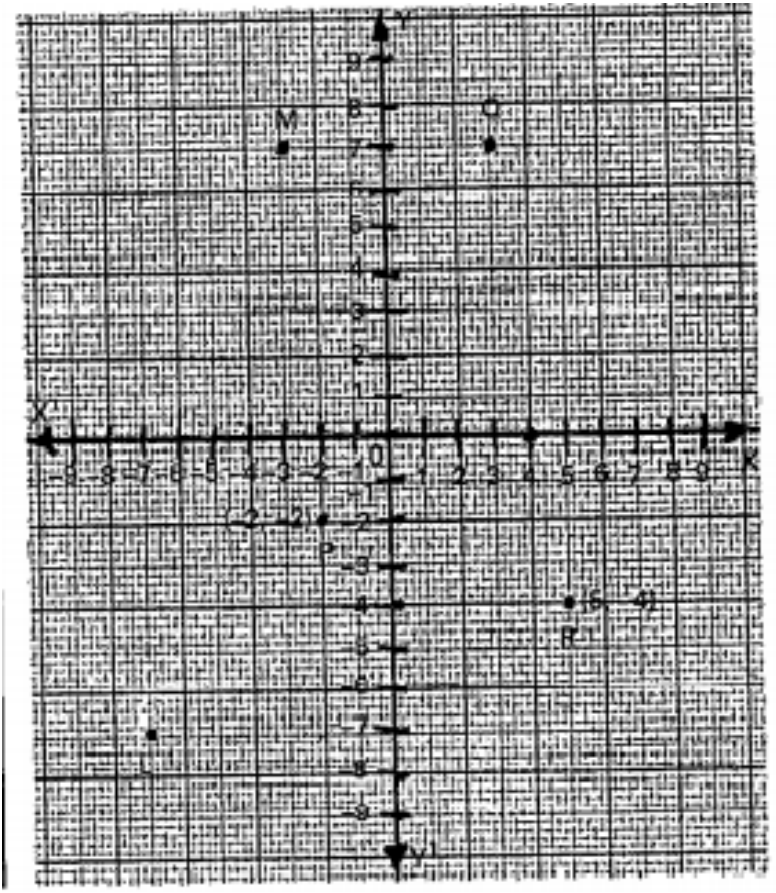
40. Write the following based on the graph :

The point denoted by (-2,-2).



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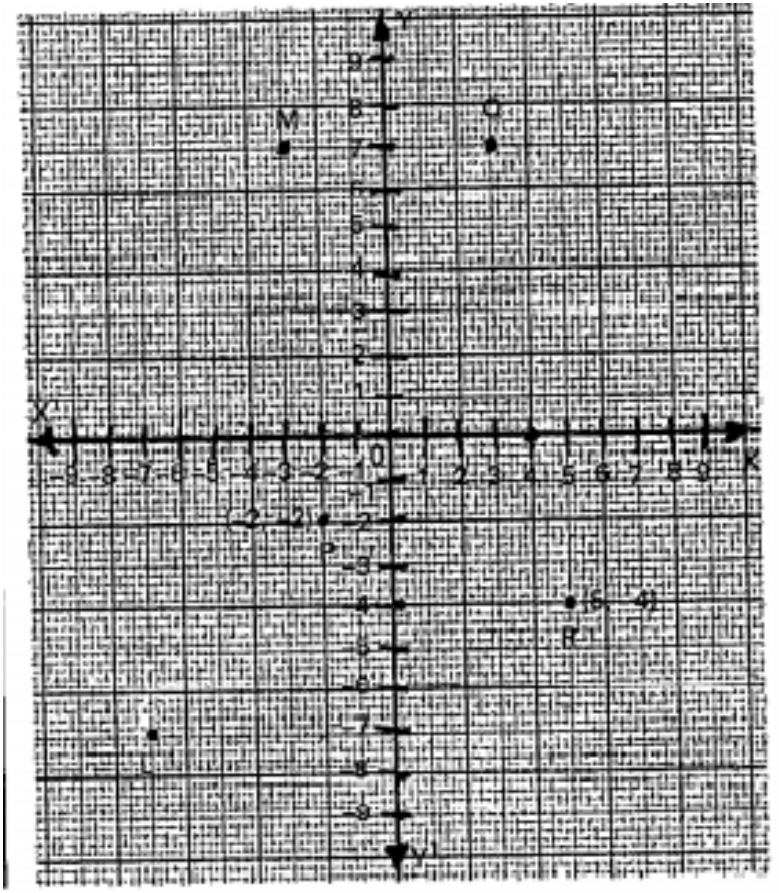
41. Write the following based on the graph :

The point denoted by (5, -4).



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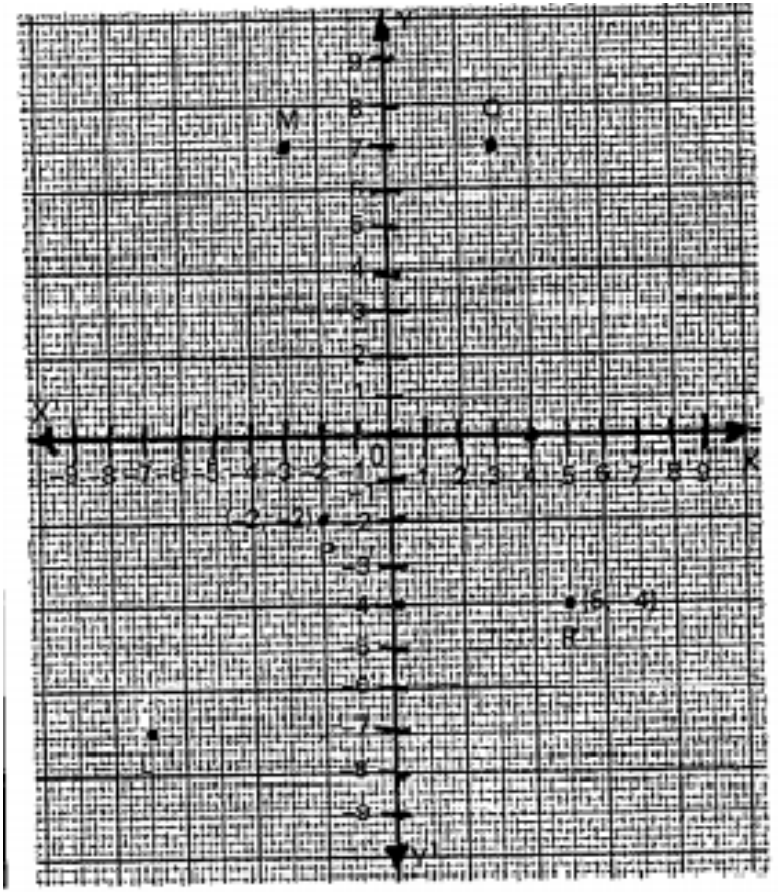
42. Write the following based on the graph :

The abscissa of N.



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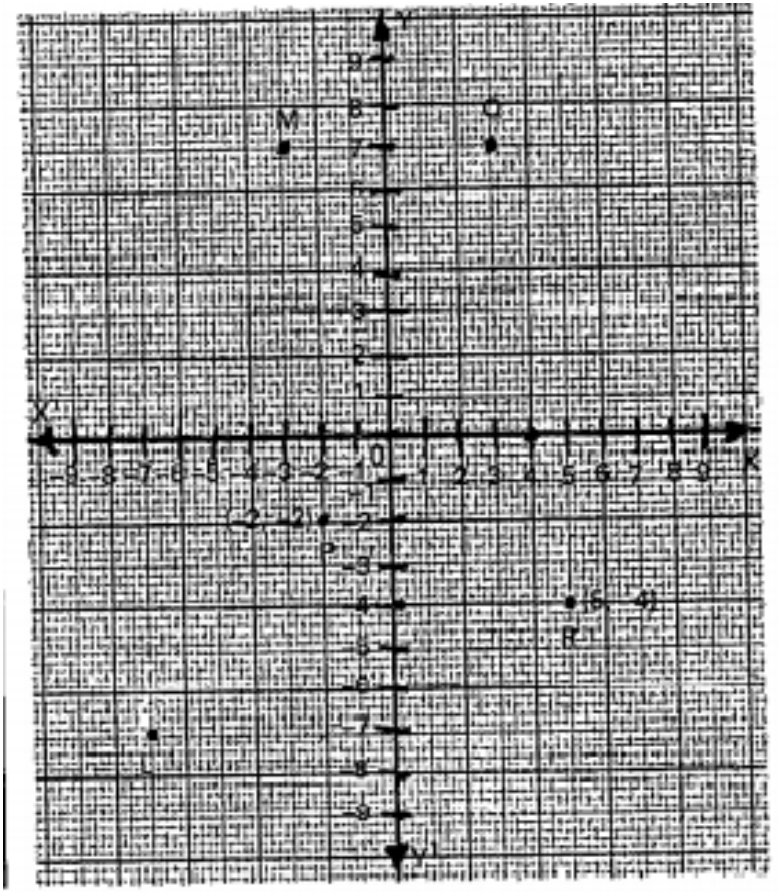
43. Write the following based on the graph

:The abscissa of M.



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44. State True or False, if 'false' write correct statement.

In the Cartesian plane the horizontal line is called Y-axis.

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45. State True or False, if 'false' write correct statement.

In the Cartesian plane the vertical line is called Y-axis.

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46. State True or False, if 'false' write correct statement.

The point which lies on both the axes is called origin.

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47. State True or False, if 'false' write correct statement.

The point (2,-3) lies in the third quadrant.

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48. State whether the following statements are true or false. Justify your answer.

$S=\{5,6,7\}$ implies $8 \in S$.

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49. 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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50. 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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51. 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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52. The point A(5,-1,1), B(7,-4,7), C(1,-6,10), D(-1,-3,4) form

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53. 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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54. 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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55. 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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56. 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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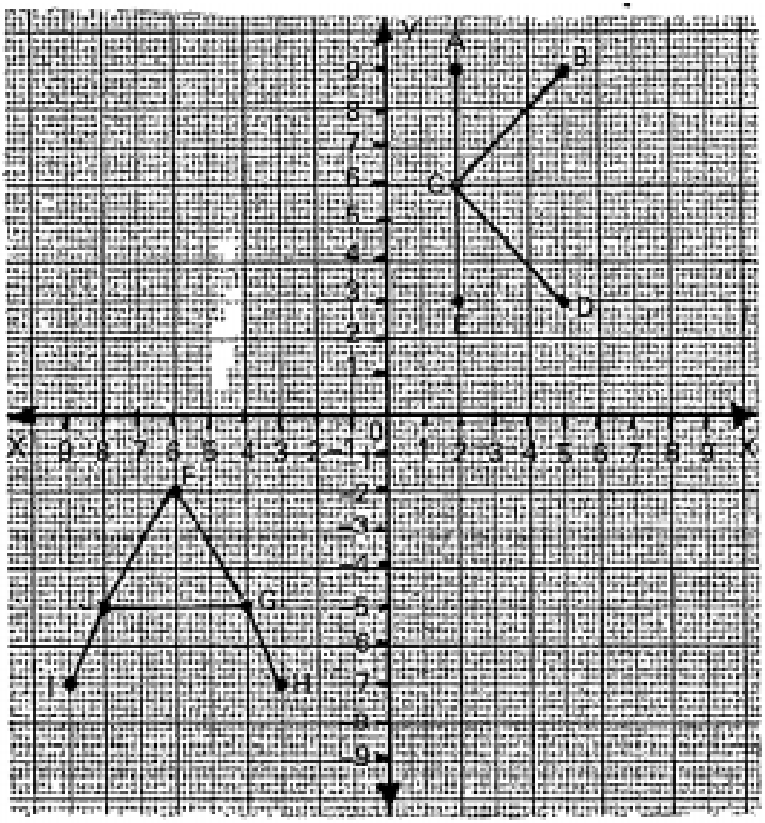
57. Write the co-ordinates of the points A. B, C, D, E.



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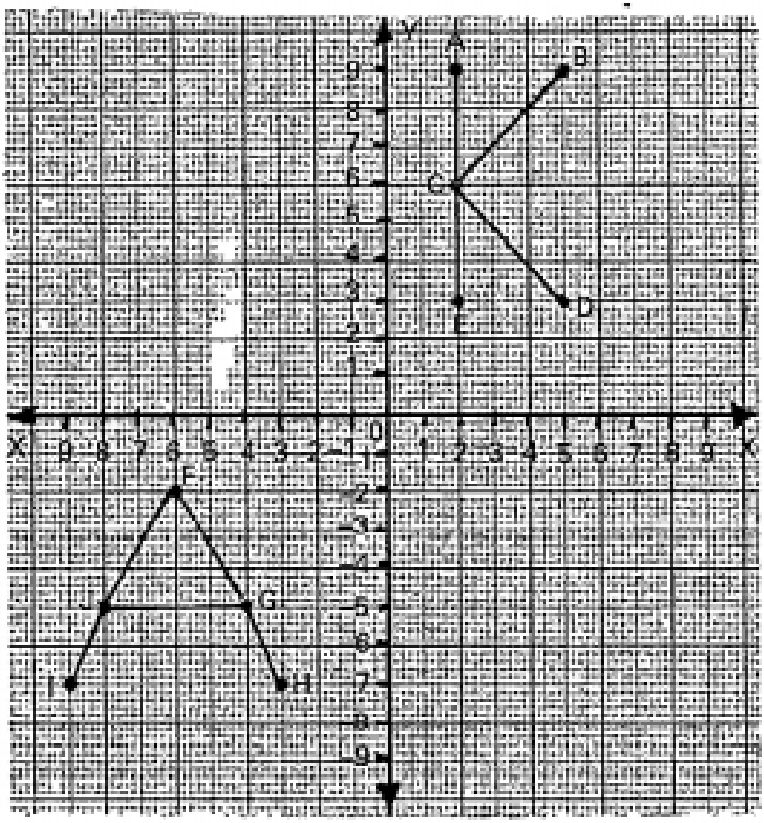
58. Write the co-ordinates of F, G, H, I, J.



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59. Plot the following in the Cartisian plane whose x,y co-ordinates are given

x	2	3	−1	0	−9	−4
y	−3	−3	4	11	0	−6
(x, y)						

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60. Plot atleast 10 points in graph sheet, each having the sum of its co-ordinates equal to 8. What do you observe ?

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61. Are the positions of (5,-8) and (-8,5) is same? Justify your answer.

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62. 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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63. Verify whether the following points are collinear or not .

(1 , -6) , (3 , -4) , (4 , - 3) .

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64. 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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65. The area of the quadrilateral formed by the points (1, 2), (2, -3), (-2, 4), (0, 5) is

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66. 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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67. 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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68. 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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69. 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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70. Plot at least six points in a graph sheet, each having the sum of its coordinates equal to 5.

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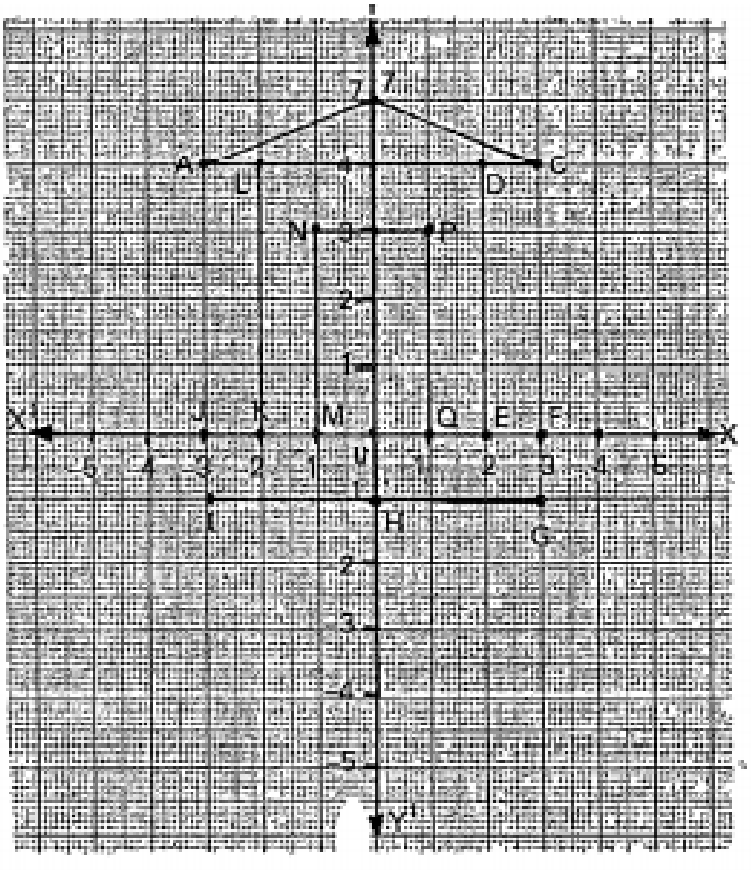
71. Look at the graph. Write the co-ordinates of the points A, B, C, D, E, F, G, H, I, J, K, L, M, N, P, O and Q.



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72. In a graph Sheet Plot each pair 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) $(-2, 1), (-2, 0)$

Now join the following pairs of points by straight line segments, in the same graph.

(viii) $(-3, 5), (-3, 4)$ (ix) $(2, 5), (2, -4)$ (x) $(2, -4), (4, -2)$ (xi) $(2, -4), (4, -3)$ (xii) $(4, -2), (4, 7)$ (xiii) $(4, 7), (-1, 7)$ (xiv)

$(-3, 2), (2, 2)$

Now you will get a surprise figure. What is it?

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73. Plot each pair of points, join them by straight line segments: (-2, 1), (2, 1),(-2, 1), (-4, 0), (4, 0), (2, 1), (4, 0), (2, 3),(2, 1), (2, 3),(2, 3), (-2, 3)(2, 3), (-2, 3),(-2, 3), (-4, 0),(-2, 1), (-2, 3).

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74. Find the value of tanA+cosA where A=30degrees.

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75. Find the equation of a curve whoise gradient is $\frac{dy}{dx} = \frac{y}{x} - \cos^2 \frac{y}{x}$, where $x > 0, y > 0$ and which passes through the point $\left(1, \frac{\pi}{4}\right)$.

A. Q_1

B. Q_2

C. Q_3

D. Q_4

Answer:

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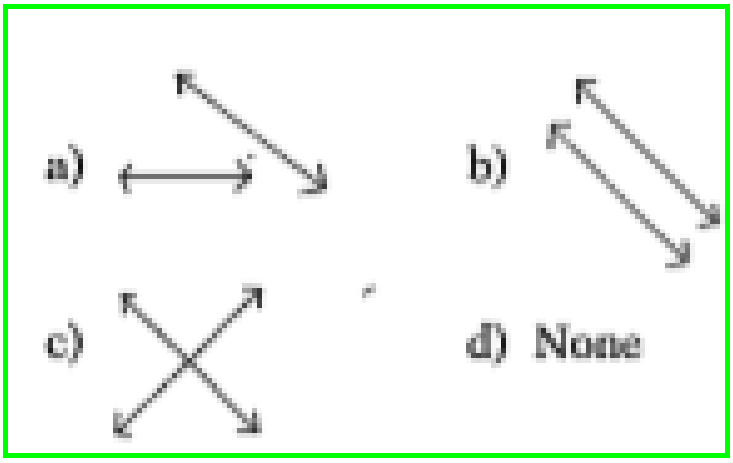
76. Which of the following are parallel lines?



A. $x = 3$

B. $x + y = 0$

C. $x = 0$

D. $y = 3$

Answer:

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77. Co-ordinates of the origin

A. (0, 2)

B. (3,0)

C. (0, 0)

D. (1,1)

Answer:

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78. The lines x= 2, y=3 are___to each other.

A. Parallel

B. Perpendicular

C. Coinciding

D. None

Answer:

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79. The equation parallel to y-axis.

A. $y = -3$

B. $x = -3$

C. $x + y = 1$

D. $x = y$

Answer:

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80. What is the general form of the points which lie on X-axis ? Write any four points lie on X-axis.

A. (3, 4)

B. (2, 0)

C. -0.5

D. (-2, -1)

Answer:

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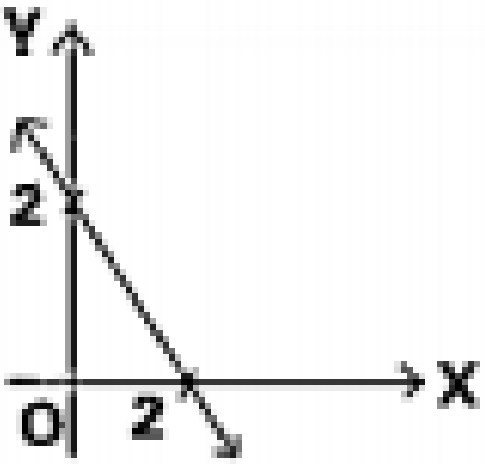
81. In the adjacent figure, the line represents



A. x + y = 2

B. x = 2

C. y = 2

D. x-y-1

Answer:

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82. The figure formed by joining the points(1, 1), (1, 3), (3, 1), (3, 3) is

A. Rectangle

B. Square

C. Parallelogram

D. Trapezium

Answer:

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83. Area of the triangle formed with the points (0, 0), (2, 0) and (0, 3) on graph

A. 6sq. units

B. 2sq. units

C. 3sq. units

D. 12sq. units

Answer:

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84. Which of the following points does not lie on the straight line $x + y = 7$? (-2,9),(-3,-4),(5,-2),(0,7)

A. (-2, 9)

B. (-3,-4)

C. (5,-2)

D. (0, 7)

Answer:

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85. Fill in the Blanks :Co-ordinate geometry is developed by__.

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86. Fill in the Blanks :The point of intersection of co-ordinate axes is___.

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87. Fill in the Blanks : If $(x + y, 1)=(5, x-y)$ then $x=$___.

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88. equation of X - axis is .....

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89. Fill in the Blanks :Every point in a plane has its position___.

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90. What is the general form of the points which lie on X-axis?

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91. Fill in the Blanks : If $x < 0$ and $y < 0$, then point (x, y) lies in___ quadrant.

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92. Fill in the Blanks : A line y= - 4 is at a distance of____ units from x-axis.

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93. Fill in the Blanks : If (x, y) = (y, x) then____.

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94. Fill in the Blanks : The plane is called the Cartesian plane named after the mathematician____.

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95. Which of the following points lie on the axes?Also name them? : (4,-5), (3, 0), (-4, 0). (-1,

-3) (-2, 3), (-2.5, 0).(0, -4), (2, 3), (0, -3.5) , (-3, 0), (0, -5), (3.5, 2.5).

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96. Plot the orderd pairs A(0, 1), B(12, 1). C(10,7), D(3, 7). What kind of figure is formed ?Find Its area?

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97. Locate the points on a graph and what do you infer? (3, 2), (3, 3), (3, -1), (3, 5), (3, -4), (3,6), (3, 1), (3, 4), (3,-2), (3,-3).(3, 0)

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98. Locate the points (0, 0), (1, 1), (2, 2), (3, 3) (4,4), (-1, -1), (-2,-2), (-3, -3), (-4,-4) and what is your observation?

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99. Plot the points on a graph sheet. (1, 4), (2, 1), (6, 1). (5. 4). What is the figure formed ? Find Its area.

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