EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Graphs

Grade : ICSE Grade VII

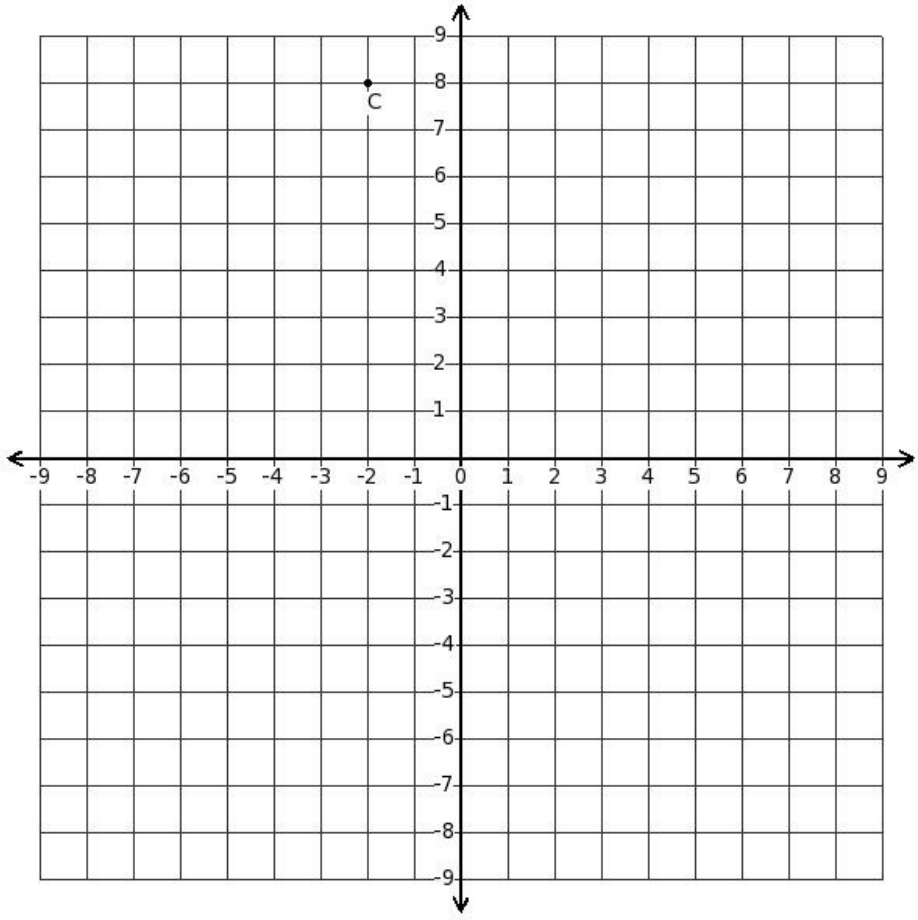
1. Which of the following equations satisfy the given points $((-2),3),((-1),2),(0,1),(1,0),(2,(-1))$?

   (i) $y=(-7)$ (ii) $(-13x-13y+13)=0$ (iii) $(9x+3y-1)=0$ (iv) $x=(-8)$ (v) $y=(-x-15)$

2. Which of the following equations satisfy the given points $((-2),(-7)),((-1),(-7)),(0,(-7)),(1,(-7)),(2,(-7))$?

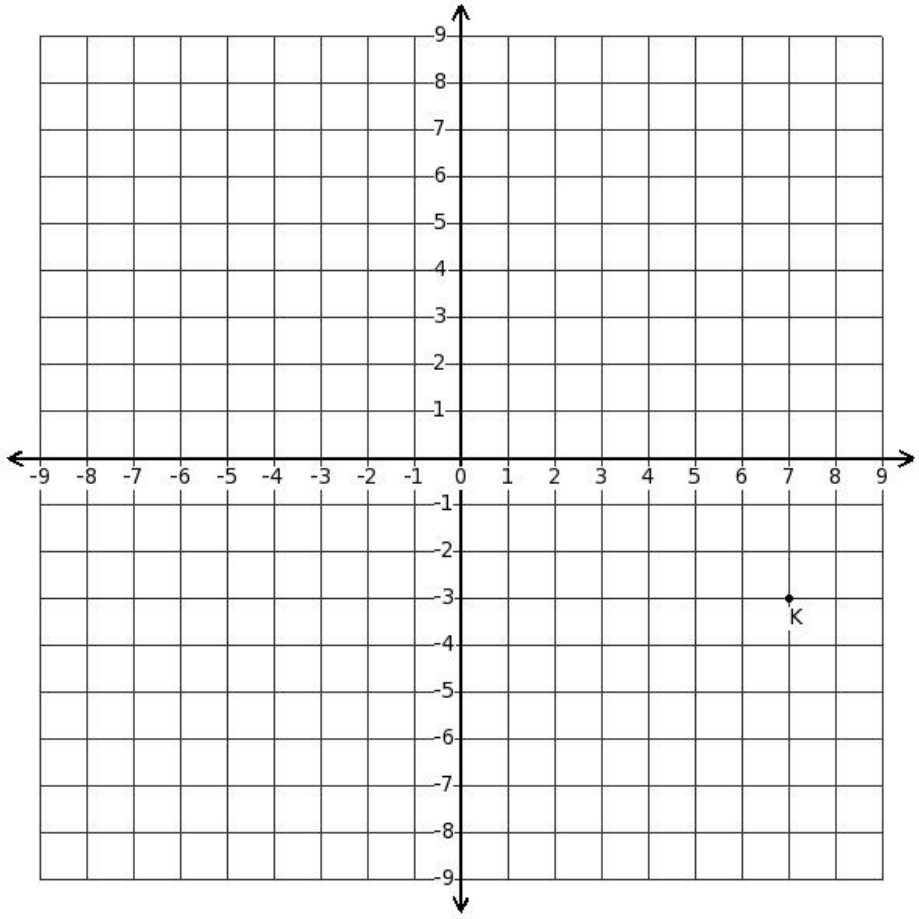
   (i) $x=6$ (ii) $y=(-7)$ (iii) $x=(\frac{3}{2}y+\frac{33}{2})$ (iv) $(7x+8y-4)=0$ (v) $y=(-\frac{3}{2}x+2)$

3. Determine the coordinates of point C in the diagram.



   (i) $(2,8)$ (ii) $((-2),8)$ (iii) $(8,(-2))$ (iv) $(2,(-8))$ (v) $((-2),(-8))$

4. Determine the coordinates of point K in the diagram.



(i) $((-7),(-3))$ (ii) $((-7),3)$ (iii) $(7,(-3))$ (iv) $(7,3)$ (v) $((-3),7)$

5. The coordinates of a point which is 1 unit away from x-axis and 2 units away from y-axis in the third quadrant is

(i) $((-1),(-2))$ (ii) $(2,1)$ (iii) $(2,(-1))$ (iv) $((-2),(-1))$ (v) $((-2),1)$

6. Which of the following equations satisfy the given points $((-2),2),((-1),\frac{10}{9}),(0,\frac{2}{9}),(1,(-\frac{2}{3})),(2,(-\frac{14}{9}))$?

(i) $(8x+9y-2)=0$ (ii) $(-9x-9y+63)=0$ (iii) $x=(y-8)$ (iv) $y=(-x-4)$ (v) $y=2$

7. Which of the points (8,4), (-4,3), (-8,-6) and (1,-8) belong to the third quadrant?

(i) $((-8),(-6))$ (ii) $((-4),3)$ (iii) $(1,(-8))$ (iv) $(8,4)$

8. The y-coordinate of a point is also called as

(i) origin (ii) abscissa (iii) y-axis (iv) x-axis (v) ordinate

9. The point of intersection of x-axis and y-axis

(i) $(1,0)$ (ii) $(1,1)$ (iii) $(0,2)$ (iv) $(0,0)$

10. Which of the following is a point on the negative x-axis?

(i) $((-3),9)$ (ii) $(0,8)$ (iii) $(0,(-6))$ (iv) $((-8),0)$ (v) $(7,0)$

11. Find the set of points satisfying the equation $(4x+9y-2)=0$

(i) $((-2),\frac{10}{9}),((-1),\frac{2}{3}),(0,\frac{2}{9}),(1,(-\frac{2}{9})),(2,(-\frac{2}{3}))$ (ii) $((-2),\frac{10}{9}),((-1),\frac{2}{3}),(1,(-\frac{7}{9})),(1,(-\frac{2}{9})),(2,(-\frac{2}{3}))$

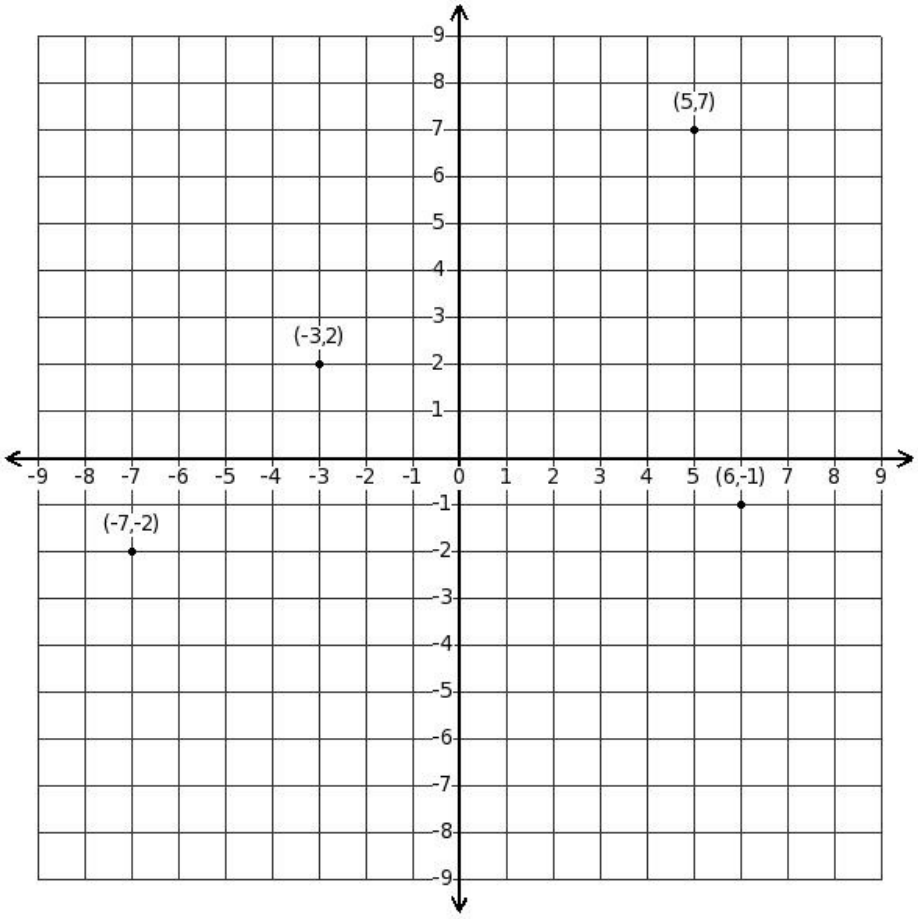
(iii) $((-2),\frac{10}{9}),((-1),\frac{2}{3}),(0,\frac{2}{9}),(1,(-\frac{2}{9})),(4,\frac{4}{3})$ (iv) $((-2),\frac{10}{9}),((-1),\frac{2}{3}),(0,\frac{2}{9}),(0,\frac{7}{9}),(2,(-\frac{2}{3}))$

(v) $((-2),\frac{10}{9}),((-1),\frac{2}{3}),((-2),(-\frac{16}{9})),(1,(-\frac{2}{9})),(2,(-\frac{2}{3}))$

12. The coordinates of the origin are

(i) $(9,0)$ (ii) $(0,0)$ (iii) $(1,0)$ (iv) $(0,8)$ (v) $(1,1)$

13. Identify the point belonging to the second quadrant

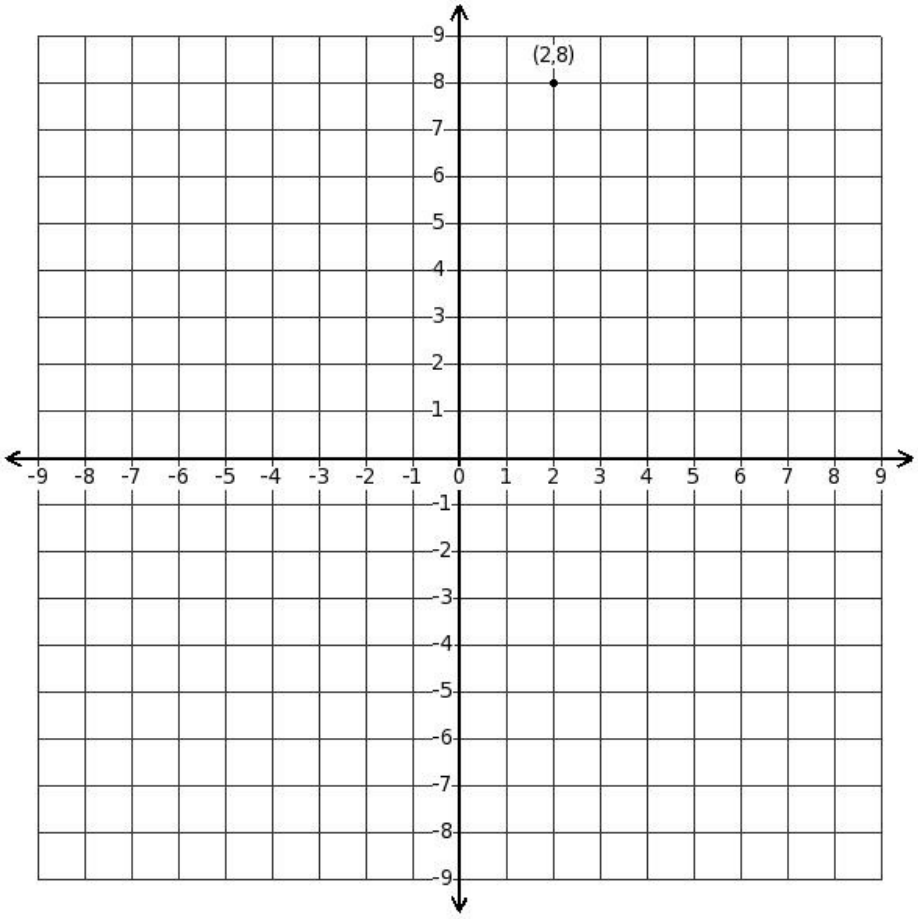


(i) $(6,(-1))$ (ii) $((-7),(-2))$ (iii) $((-3),2)$ (iv) $(5,7)$

14. A point lies on positive side of y-axis at a distance of 5 units from x-axis. What are the coordinates of the point?

(i) $(0,(-5))$ (ii) $((-5),0)$ (iii) $(0,5)$ (iv) $(5,0)$

15. Determine the quadrant of the displayed point



(i) second quadrant (ii) third quadrant (iii) first quadrant (iv) fourth quadrant

16. Which of the following equations satisfy the given points $((-3),(-2)),((-3),(-1)),((-3),0),((-3),1),((-3),2)$?

(i) $(4x+3y-1)=0$ (ii) $y=(-3)$ (iii) $x=(\frac{5}{9}y-\frac{4}{3})$ (iv) $(-10x-18y+72)=0$ (v) $x=(-3)$

17. Find the set of points satisfying the equation $x=(\frac{7}{8}y+\frac{1}{8})$

(i) $((-2),(-\frac{17}{7})),((-1),(-\frac{9}{7})),(1,(-\frac{8}{7})),(1,1),(2,\frac{15}{7})$

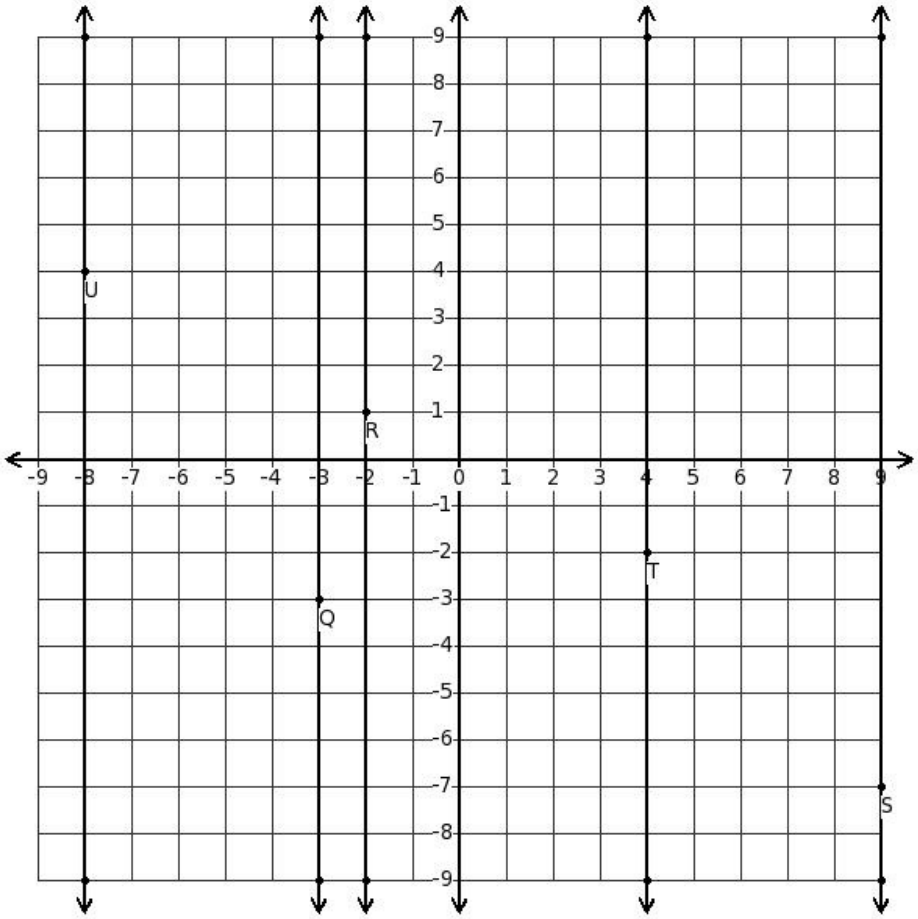
(ii) $((-2),(-\frac{17}{7})),((-1),(-\frac{9}{7})),(0,(-\frac{1}{7})),(0,2),(2,\frac{15}{7})$

(iii) $((-2),(-\frac{17}{7})),((-1),(-\frac{9}{7})),((-2),(-\frac{15}{7})),(1,1),(2,\frac{15}{7})$

(iv) $((-2),(-\frac{17}{7})),((-1),(-\frac{9}{7})),(0,(-\frac{1}{7})),(1,1),(2,\frac{15}{7})$

(v) $((-2),(-\frac{17}{7})),((-1),(-\frac{9}{7})),(0,(-\frac{1}{7})),(1,1),(4,\frac{29}{7})$

18. Which of the displayed lines represent the equation $x=(-3)$

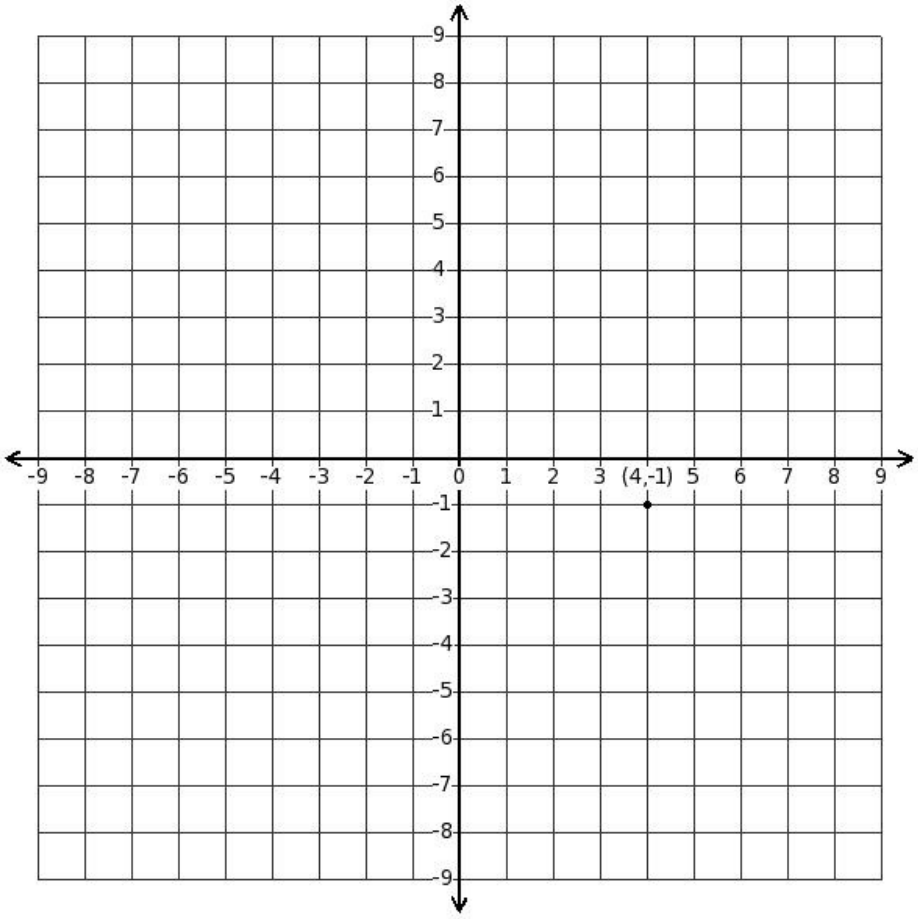


(i) line with point Q (ii) line with point T (iii) line with point S (iv) line with point R (v) line with point U

19. Which of the following is a point on the negative y-axis?

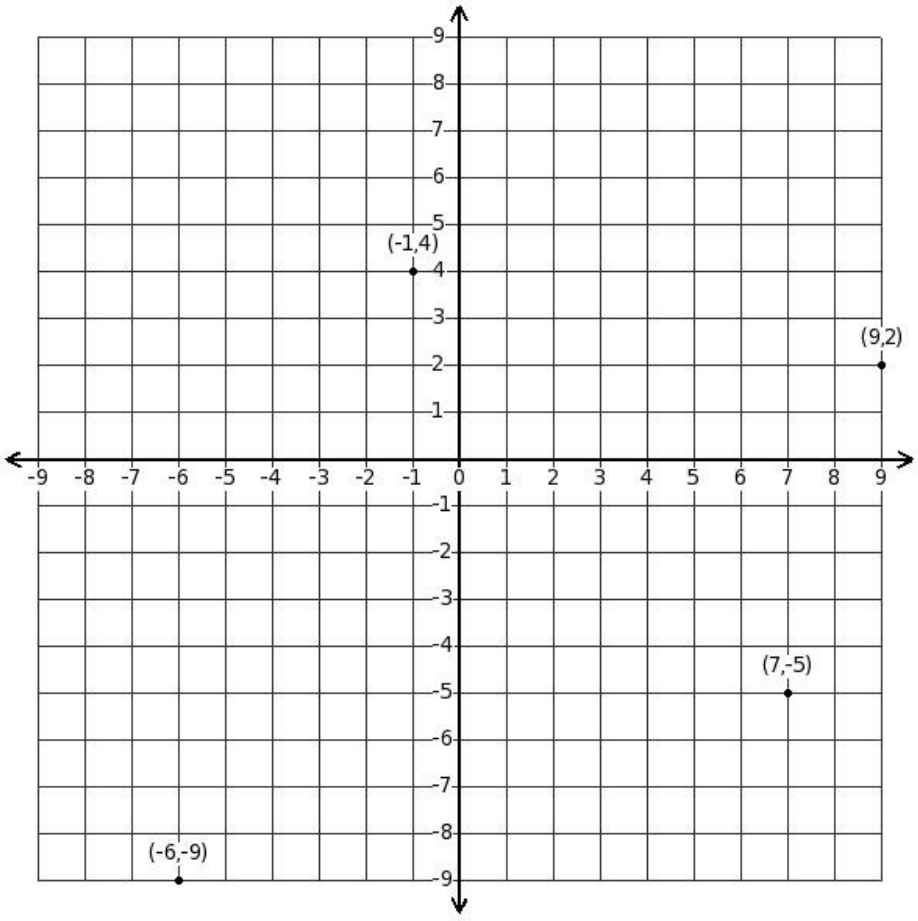
(i) $((-2),0)$ (ii) $(8,0)$ (iii) $((-6),5)$ (iv) $(0,(-6))$ (v) $(0,5)$

20. Determine the quadrant of the displayed point



(i) second quadrant (ii) fourth quadrant (iii) third quadrant (iv) first quadrant

21. Identify the point belonging to the third quadrant



(i) $(7,(-5))$ (ii) $((-6),(-9))$ (iii) $((-1),4)$ (iv) $(9,2)$

22. A point lies on positive side of x-axis at a distance of 2 units from y-axis. What are the coordinates of the point?

(i) $(0,(-2))$ (ii) $(2,0)$ (iii) $((-2),0)$ (iv) $(0,2)$

23. If point P(x,y) lies in the first quadrant, then

(i) x is positive and y is positive (ii) x is positive and y is negative (iii) x is negative and y is negative

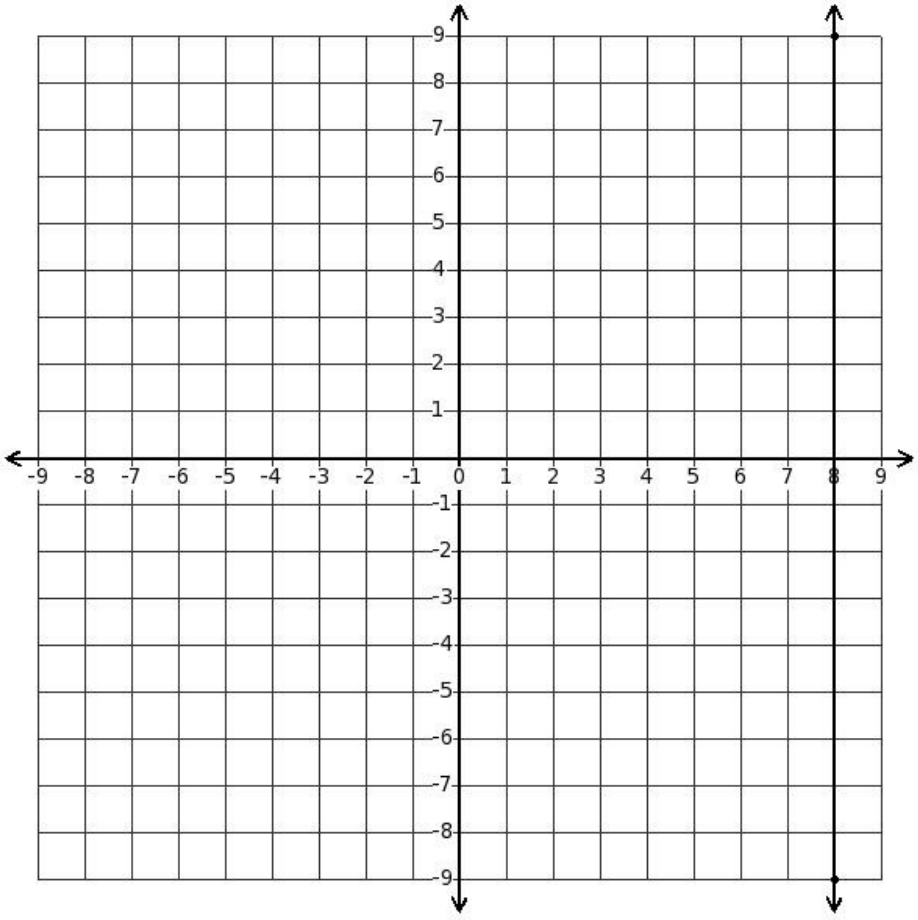
(iv) x is negative and y is positive

24. Which of the following are true?

a) The abscissa of every point on y-axis is zero
b) The abscissa of every point on x-axis is zero
c) The ordinate of every point on y-axis is zero
d) The ordinate of every point on x-axis is zero

(i) {b,d,a} (ii) {c,d} (iii) {b,a} (iv) {b,c,a} (v) {a,d}

25. Find the equation of the displayed line



(i) $3x=8$ (ii) $x=9$ (iii) $x=8$ (iv) $y=8$ (v) $x=7$

Assignment Key

1) (ii)	2) (ii)	3) (ii)	4) (iii)	5) (iv)	6) (i)
7) (i)	8) (v)	9) (iv)	10) (iv)	11) (i)	12) (ii)
13) (iii)	14) (iii)	15) (iii)	16) (v)	17) (iv)	18) (i)
19) (iv)	20) (ii)	21) (ii)	22) (ii)	23) (i)	24) (v)
25) (iii)					