EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Co-ordinate Geometry

Grade : ICSE Grade IX

1. Find the set of points satisfying the equation $x=(-\frac{9}{7}y-\frac{20}{7})$

   (i) $((-2),(-\frac{2}{3})),((-1),(-\frac{13}{9})),(1,(-\frac{29}{9})),(1,(-3)),(2,(-\frac{34}{9}))$

   (ii) $((-2),(-\frac{2}{3})),((-1),(-\frac{13}{9})),(0,(-\frac{20}{9})),(1,(-3)),(4,(-\frac{16}{9}))$

   (iii) $((-2),(-\frac{2}{3})),((-1),(-\frac{13}{9})),(0,(-\frac{20}{9})),(1,(-3)),(2,(-\frac{34}{9}))$

   (iv) $((-2),(-\frac{2}{3})),((-1),(-\frac{13}{9})),((-2),(-\frac{38}{9})),(1,(-3)),(2,(-\frac{34}{9}))$

   (v) $((-2),(-\frac{2}{3})),((-1),(-\frac{13}{9})),(0,(-\frac{20}{9})),(0,(-2)),(2,(-\frac{34}{9}))$

2. Which of the following are true?

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

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

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

   (i) $y=(-2x-14)$ (ii) $y=(-8)$ (iii) $x=(2y+13)$ (iv) $x=(-3)$ (v) $(2x+2y-1)=0$

4. The equation of x-axis is

   (i) $y=x$ (ii) $x=1$ (iii) $y=1$ (iv) $y=0$ (v) $x=0$

5. Which of the points (6,4), (-3,7), (-8,-9) and (1,-4) belong to the fourth quadrant?

   (i) $((-8),(-9))$ (ii) $((-3),7)$ (iii) $(6,4)$ (iv) $(1,(-4))$

6. The equation of the x-axis is

   a) $x=1$
   b) $y=0$
   c) $x=y$
   d) $y=1$
   e) $x=0$

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

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

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

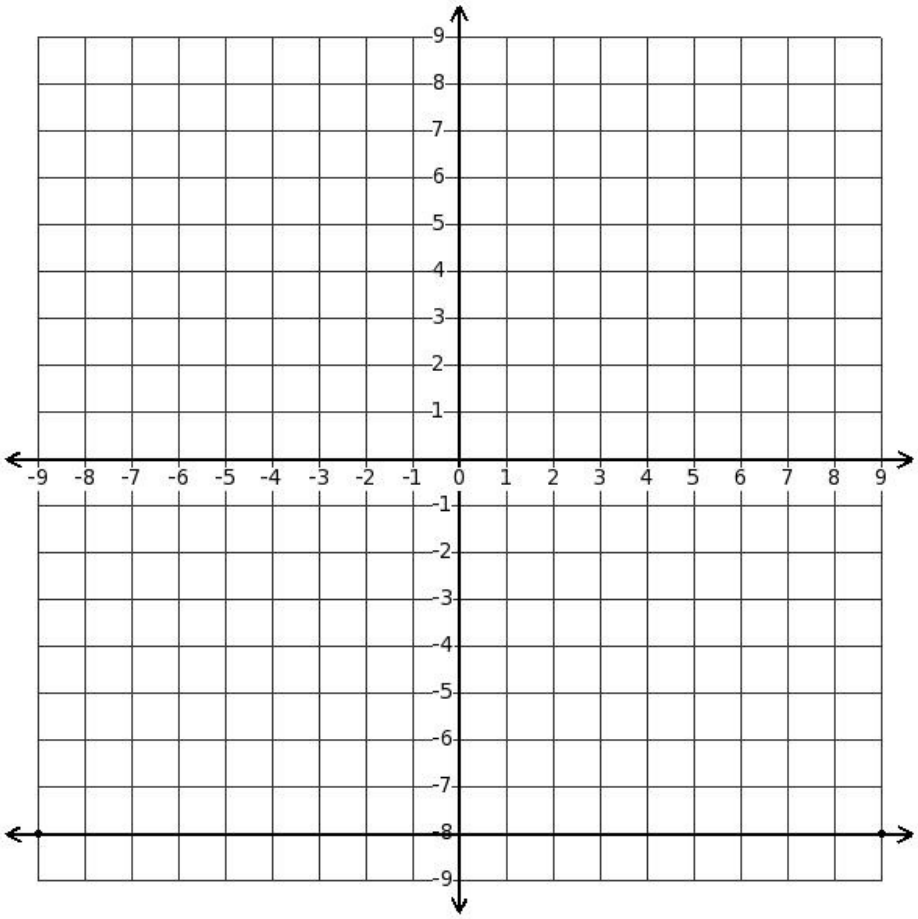
8. A line which is neither parallel to x-axis nor y-axis is

(i) an oblique line (ii) a horizontal line (iii) a curved line (iv) a vertical line

9. Which of the following lines do not pass through the origin?

(i) $(-7x-y)=0$ (ii) $(-2x+7y+17)=0$ (iii) $(6x-5y)=0$ (iv) $(-3x+2y)=0$ (v) $(4x+2y)=0$

10. Find the equation of the displayed line

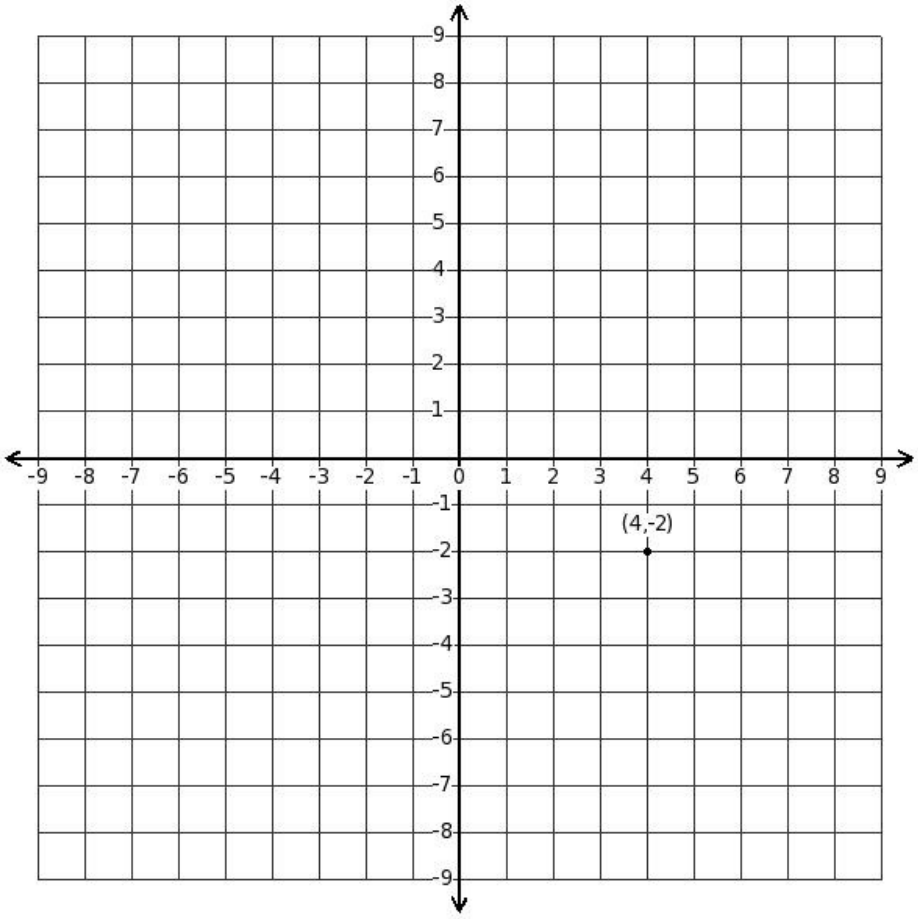


(i) $x=(-8)$ (ii) $y=(-9)$ (iii) $3y=(-8)$ (iv) $y=(-8)$ (v) $y=(-7)$

11. The point $((-9),2)$ lies in

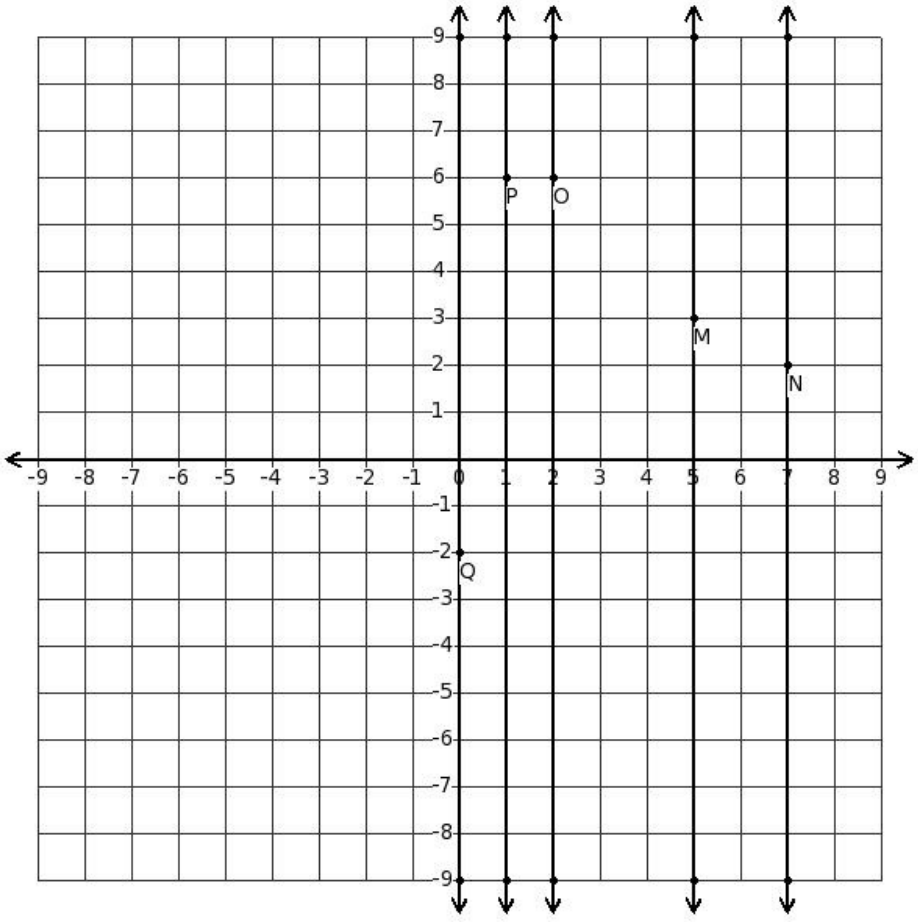
(i) fourth quadrant (ii) first quadrant (iii) second quadrant (iv) third quadrant

12. Determine the quadrant of the displayed point



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

13. Which of the displayed lines represent the equation $x = 5$



(i) line with point O (ii) line with point M (iii) line with point P (iv) line with point Q (v) line with point N

14. A point lies on positive side of x-axis at a distance of 8 units from y-axis. What are the coordinates of the point?

(i) $(0,8)$ (ii) $(8,0)$ (iii) $(0,(-8))$ (iv) $((-8),0)$

15. The coordinates of the origin are

(i) $(0,4)$ (ii) $(0,0)$ (iii) $(8,0)$ (iv) $(1,1)$ (v) $(1,0)$

16. The equation of the line passing through the origin and having a slope $m \neq 0$ is

(i) $y=mx+c$ (ii) $y=0$ (iii) $y=mx$ (iv) $x=0$ (v) $x=my+c$

17. A point lies on negative side of y-axis at a distance of 7 units from x-axis. What are the coordinates of the point?

(i) $((-7),0)$ (ii) $(0,(-7))$ (iii) $(7,0)$ (iv) $(0,7)$

18. Which of the following equations satisfy the given points $((-2),(-\frac{88}{13})),((-1),(-7)),(0,(-\frac{94}{13})),(1,(-\frac{97}{13})),(2,(-\frac{100}{13}))$?

(i) $y=(-\frac{3}{13}x-\frac{94}{13})$ (ii) $x=(\frac{3}{13}y+\frac{8}{13})$ (iii) $(4x+5y-3)=0$ (iv) $x=(-1)$ (v) $y=(-7)$

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

(i) $(0,3)$ (ii) $(8,(-4))$ (iii) $(8,1)$ (iv) $((-5),9)$ (v) $(5,0)$

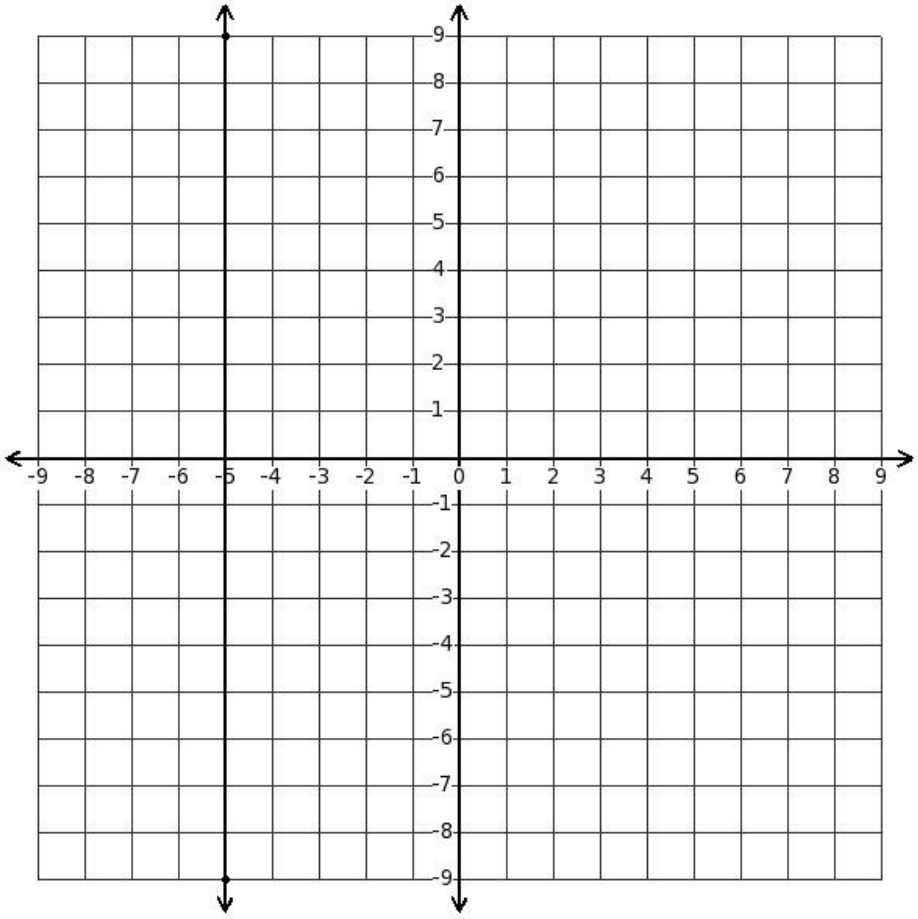
20. Which of the following is a point on the positive x-axis?

(i) $((-3),0)$ (ii) $((-1),9)$ (iii) $(0,(-3))$ (iv) $(5,0)$ (v) $(0,4)$

21. Equation of a straight line which is parallel to x-axis (where k is a constant) is

(i) $x=k$ (ii) $y=0$ (iii) $y=k$ (iv) $x=y$ (v) $x=0$

22. Find the equation of the displayed line



(i) $x=(-6)$ (ii) $x=(-4)$ (iii) $x=(-5)$ (iv) $3x=(-5)$ (v) $y=(-5)$

23. The equation of the line passing through the points $(8,(-1))$ and $(1,(-3))$ is

(i) $(6y+6)=0$ (ii) $(2x-y-5)=0$ (iii) $(-3x+3y+9)=0$ (iv) $(-2x+7y+23)=0$

24. Which of the following lines pass through the origin?

(i) $(-5x-35)=0$ (ii) $(3x-y)=0$ (iii) $(-2x+8y-22)=0$ (iv) $(11x+4y-23)=0$ (v) $(-4x-12y-76)=0$

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

(i) $(0,5)$ (ii) $((-5),0)$ (iii) $(1,0)$ (iv) $((-1),2)$ (v) $(0,(-3))$

Assignment Key

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