EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Graphs

Grade : ICSE Grade VII

1. Find the set of points satisfying the equation $x=(\frac{10}{17}y+\frac{22}{17})$

   (i) $((-2),(-\frac{28}{5})),((-1),(-\frac{39}{10})),(0,(-\frac{11}{5})),(0,\frac{1}{2}),(2,\frac{6}{5})$

   (ii) $((-2),(-\frac{28}{5})),((-1),(-\frac{39}{10})),(1,(-\frac{16}{5})),(1,(-\frac{1}{2})),(2,\frac{6}{5})$

   (iii) $((-2),(-\frac{28}{5})),((-1),(-\frac{39}{10})),(0,(-\frac{11}{5})),(1,(-\frac{1}{2})),(4,\frac{16}{5})$

   (iv) $((-2),(-\frac{28}{5})),((-1),(-\frac{39}{10})),((-2),(-\frac{21}{5})),(1,(-\frac{1}{2})),(2,\frac{6}{5})$

   (v) $((-2),(-\frac{28}{5})),((-1),(-\frac{39}{10})),(0,(-\frac{11}{5})),(1,(-\frac{1}{2})),(2,\frac{6}{5})$

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

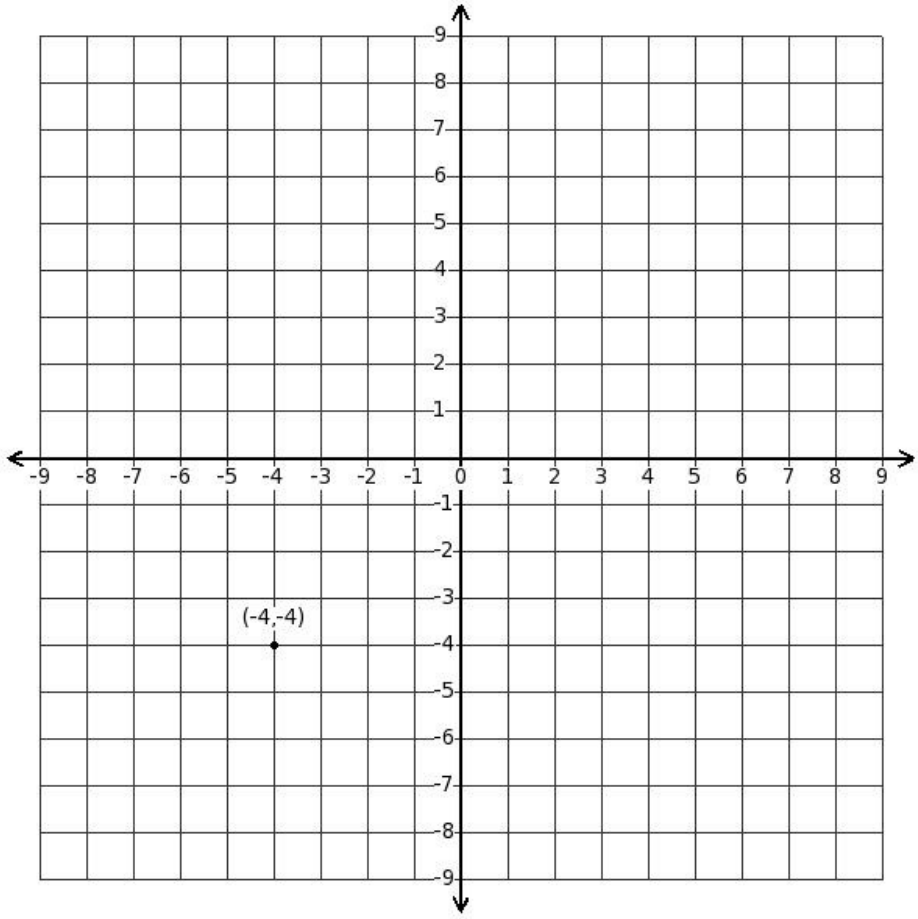
   (i) x is positive and y is negative (ii) x is positive and y is positive (iii) x is negative and y is negative

   (iv) x is negative and y is positive

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

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

4. Distance of the given point from y-axis is



(i) 0 (ii) 4 (iii) 8 (iv) 16

5. If point P(x,y) lies in the fourth quadrant, then

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

(iv) x is positive and y is negative

6. The point $((-2),4)$ lies in

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

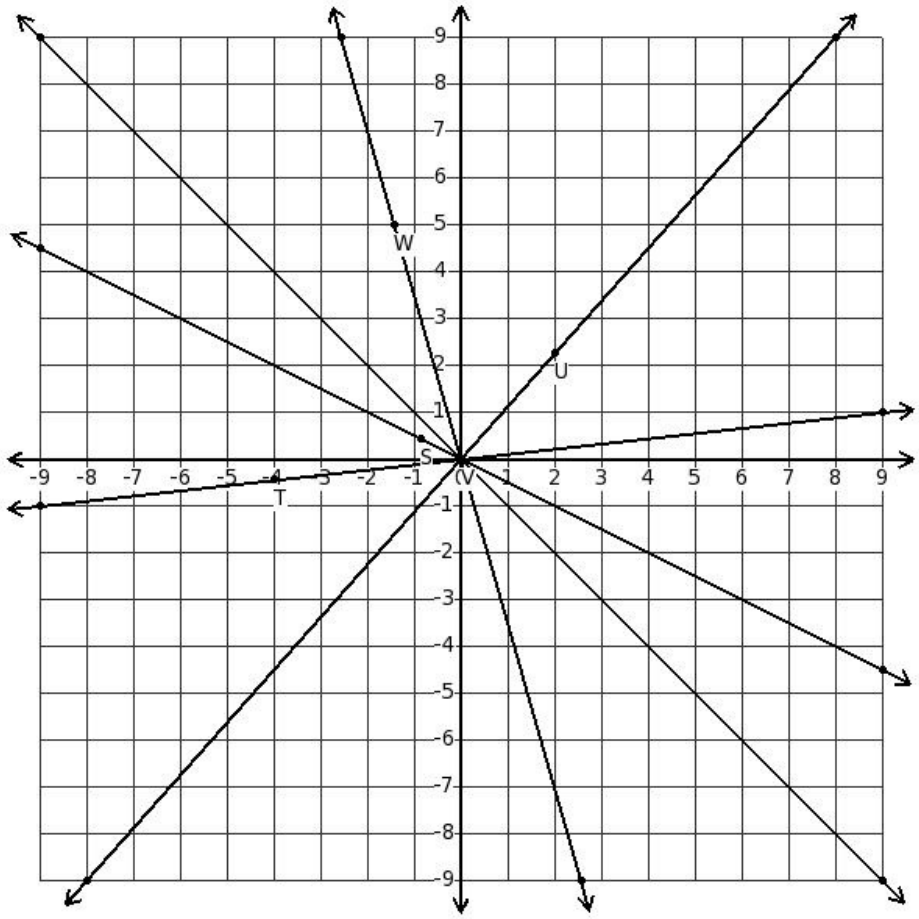
7. In a coordinate geometry plane, the horizontal reference line is called

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

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

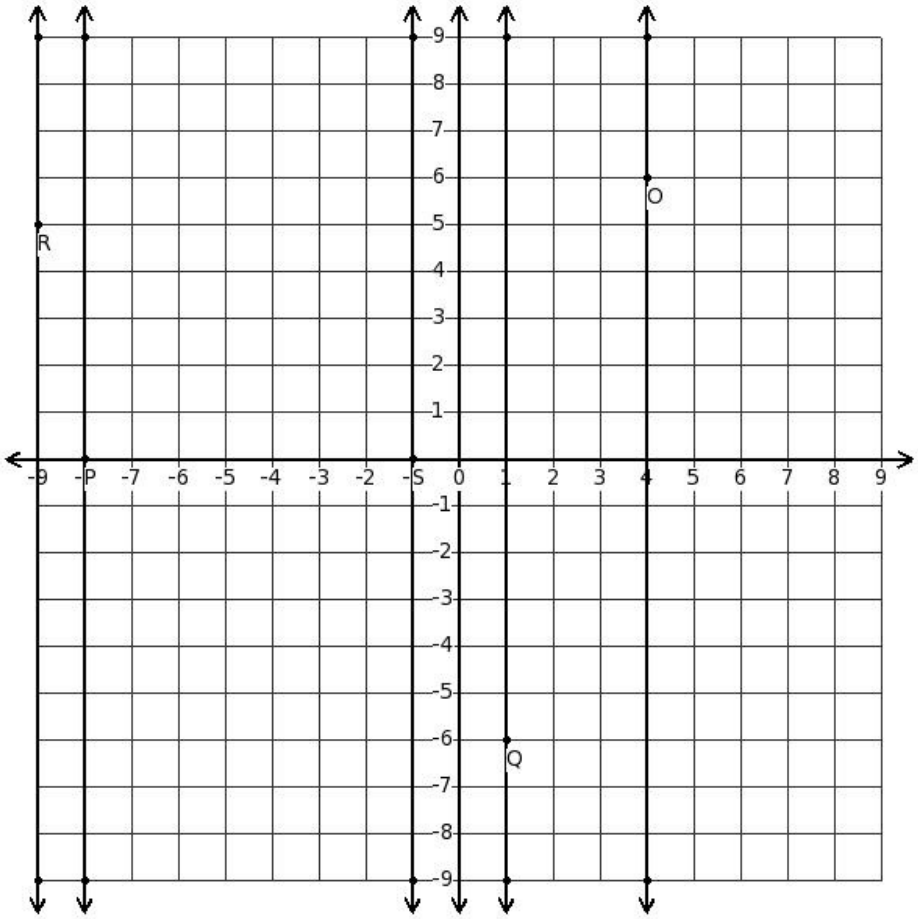
(i) $((-5),2)$ (ii) $((-2),5)$ (iii) $(2,5)$ (iv) $(2,(-5))$ (v) $((-2),(-5))$

9. Which of the displayed lines represent the equation $y=(-\frac{1}{2}x)$



(i) line with point V (ii) line with point W (iii) line with point U (iv) line with point S (v) line with point T

10. Which of the displayed lines represent the equation $x=4$



(i) line with point O (ii) line with point S (iii) line with point R (iv) line with point P (v) line with point Q

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

(i) $((-5),0)$ (ii) $(0,2)$ (iii) $((-8),1)$ (iv) $(0,(-6))$ (v) $(5,0)$

12. Find the set of points satisfying the equation $(12x+7y-4)=0$

(i) $((-2),4),((-1),\frac{16}{7}),(0,\frac{4}{7}),(0,(-\frac{1}{7})),(2,(-\frac{20}{7}))$ (ii) $((-2),4),((-1),\frac{16}{7}),(0,\frac{4}{7}),(1,(-\frac{8}{7})),(2,(-\frac{20}{7}))$

(iii) $((-2),4),((-1),\frac{16}{7}),(1,(-\frac{3}{7})),(1,(-\frac{8}{7})),(2,(-\frac{20}{7}))$

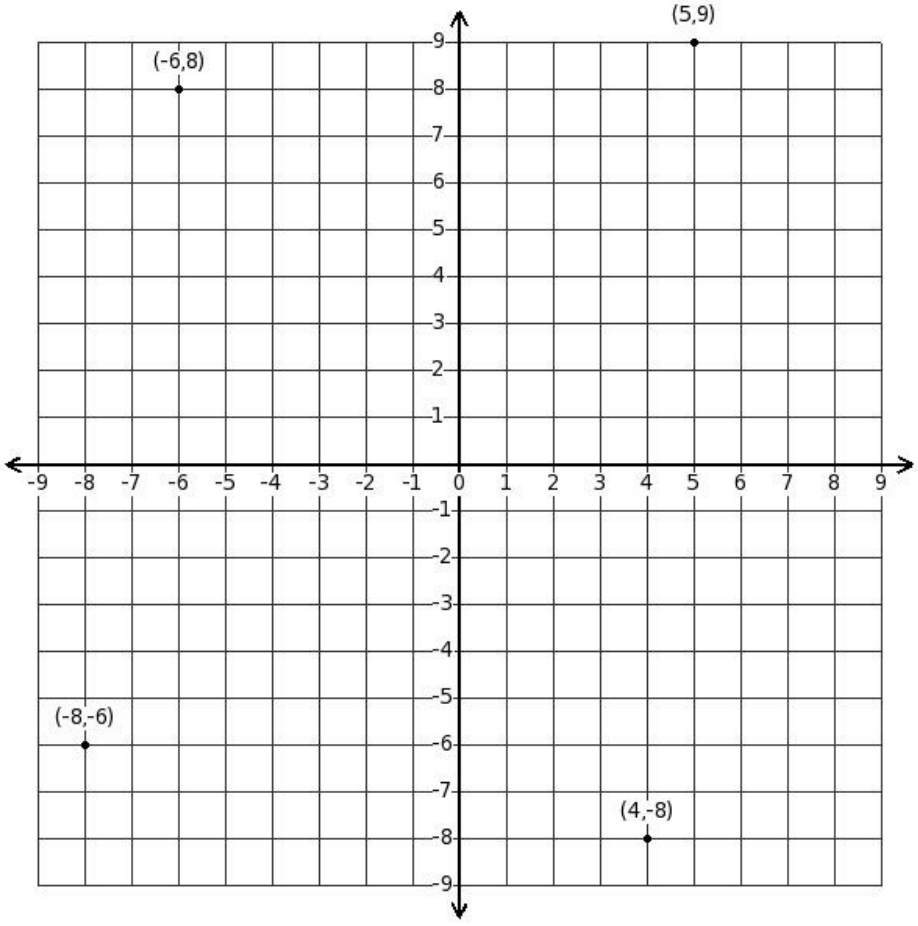
(iv) $((-2),4),((-1),\frac{16}{7}),(0,\frac{4}{7}),(1,(-\frac{8}{7})),(4,(-\frac{6}{7}))$

(v) $((-2),4),((-1),\frac{16}{7}),((-2),(-\frac{10}{7})),(1,(-\frac{8}{7})),(2,(-\frac{20}{7}))$

13. In a coordinate geometry plane, the vertical reference line is called

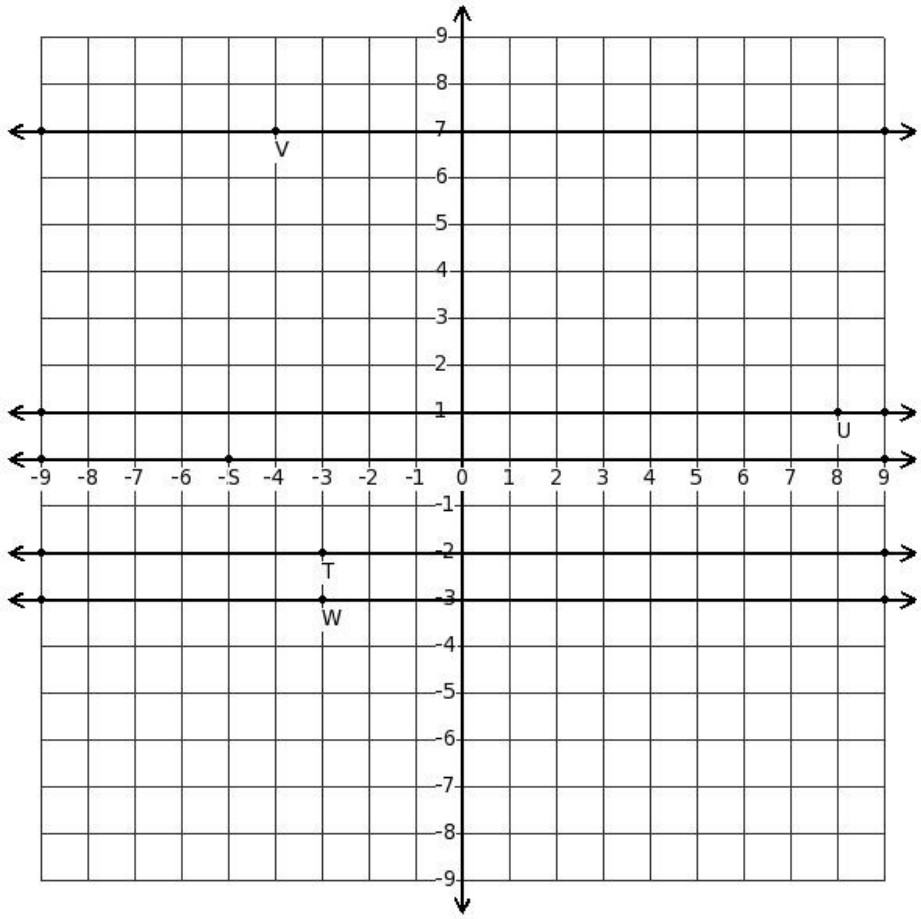
(i) origin (ii) abscissa (iii) x-axis (iv) y-axis (v) ordinate

14. Identify the point belonging to the first quadrant



(i) $((-8),(-6))$ (ii) $(4,(-8))$ (iii) $(5,9)$ (iv) $((-6),8)$

15. Which of the displayed lines represent the equation $y=0$



(i) line with point T (ii) line with point S (iii) line with point U (iv) line with point W (v) line with point V

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

(i) $((-2),1)$ (ii) $(0,7)$ (iii) $(1,5)$ (iv) $(3,0)$ (v) $(1,(-6))$

17. Find the set of points satisfying the equation $y=(-\frac{5}{2}x)$

(i) $((-2),5),((-1),\frac{5}{2}),(0,0),(0,(-\frac{3}{2})),(2,(-5))$ (ii) $((-2),5),((-1),\frac{5}{2}),(0,0),(1,(-\frac{5}{2})),(4,(-3))$

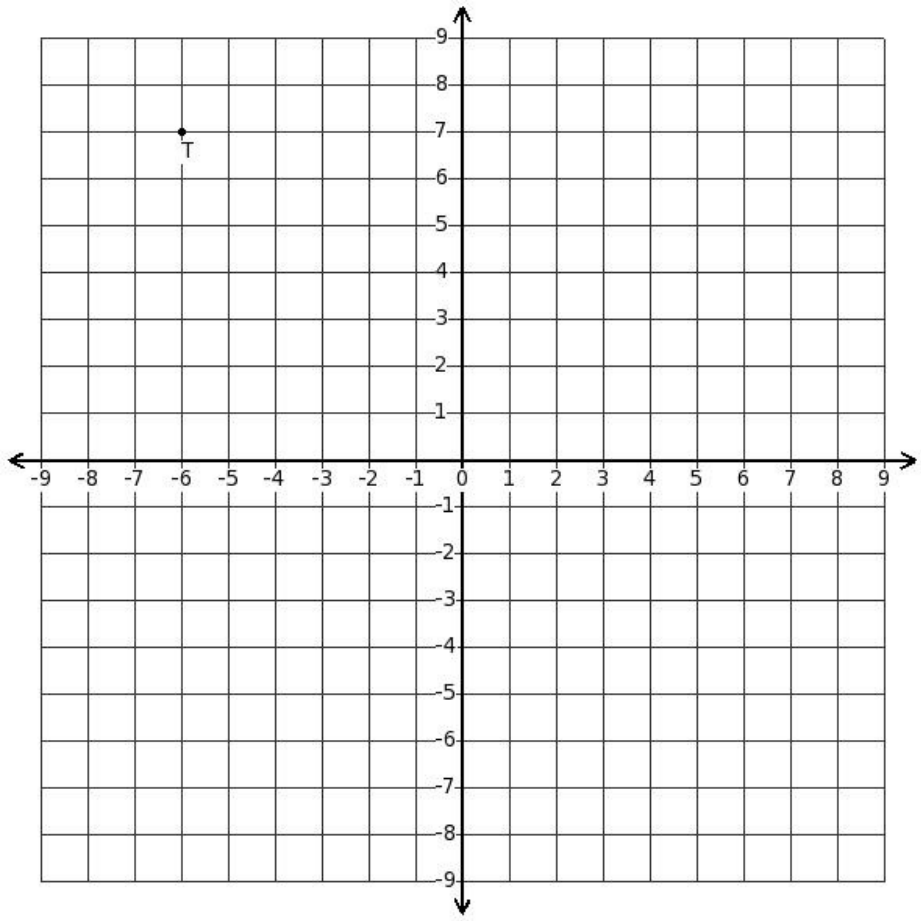
(iii) $((-2),5),((-1),\frac{5}{2}),(1,(-1)),(1,(-\frac{5}{2})),(2,(-5))$ (iv) $((-2),5),((-1),\frac{5}{2}),(0,0),(1,(-\frac{5}{2})),(2,(-5))$

(v) $((-2),5),((-1),\frac{5}{2}),((-2),(-2)),(1,(-\frac{5}{2})),(2,(-5))$

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

(i) $x=(\frac{5}{14}y-\frac{71}{14})$ (ii) $y=(-\frac{5}{14}x+\frac{11}{7})$ (iii) $y=3$ (iv) $x=(-4)$ (v) $(42x+8y-7)=0$

19. Determine the coordinates of point T in the diagram.



(i) $(6,(-7))$ (ii) $((-6),7)$ (iii) $(6,7)$ (iv) $((-6),(-7))$ (v) $(7,(-6))$

20. The coordinates of a point which is 4 units away from x-axis and 3 units away from y-axis in the first quadrant is

(i) $(3,4)$ (ii) $((-3),4)$ (iii) $(3,(-4))$ (iv) $(4,3)$ (v) $((-3),(-4))$

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

(i) $(5,0)$ (ii) $(0,2)$ (iii) $((-4),0)$ (iv) $(0,(-9))$ (v) $((-8),4)$

22. Which of the following equations satisfy the given points $((-2),\frac{123}{11}),((-1),\frac{116}{11}),(0,\frac{109}{11}),(1,\frac{102}{11}),(2,\frac{95}{11})$?

(i) $y=(-\frac{7}{11}x+\frac{109}{11})$ (ii) $(-7x-11y+52)=0$ (iii) $x=3$ (iv) $(4x+6y-3)=0$ (v) $x=(\frac{7}{11}y-\frac{23}{11})$

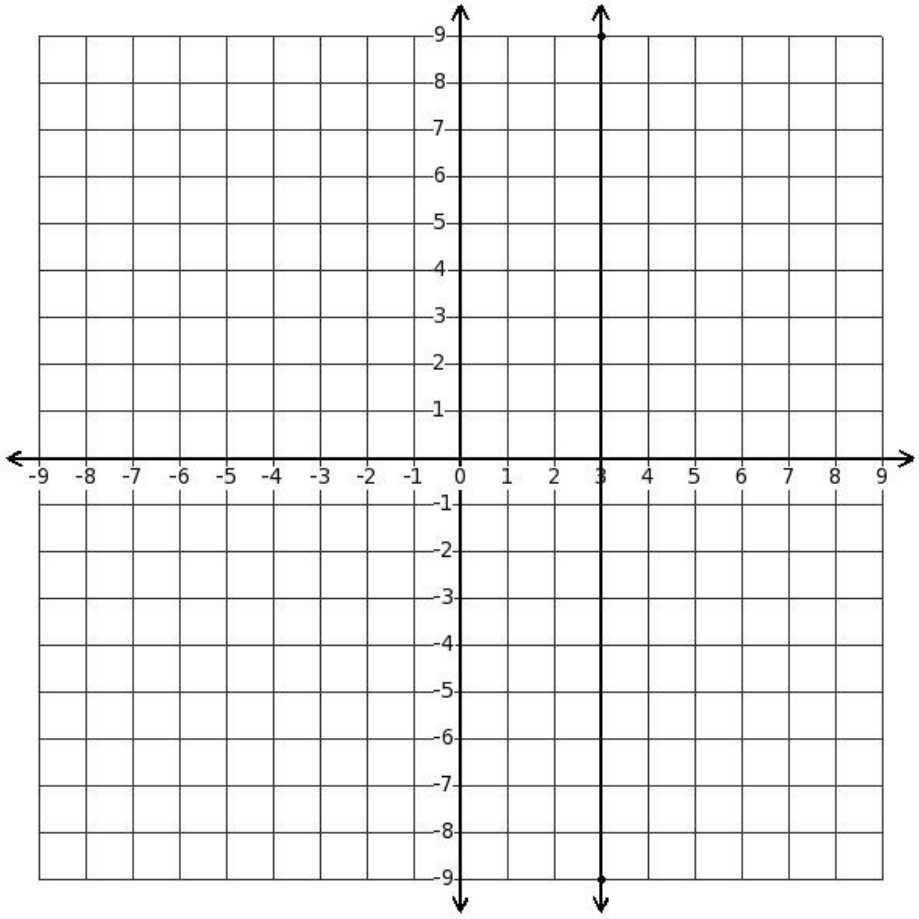
23. The point $(6,8)$ lies in

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

24. The point $(6,(-5))$ lies in

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

25. Find the equation of the displayed line



(i) $x=3$ (ii) $y=3$ (iii) $x=2$ (iv) $x=4$ (v) $3x=3$

Assignment Key

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