EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Linear Equations in two Variables

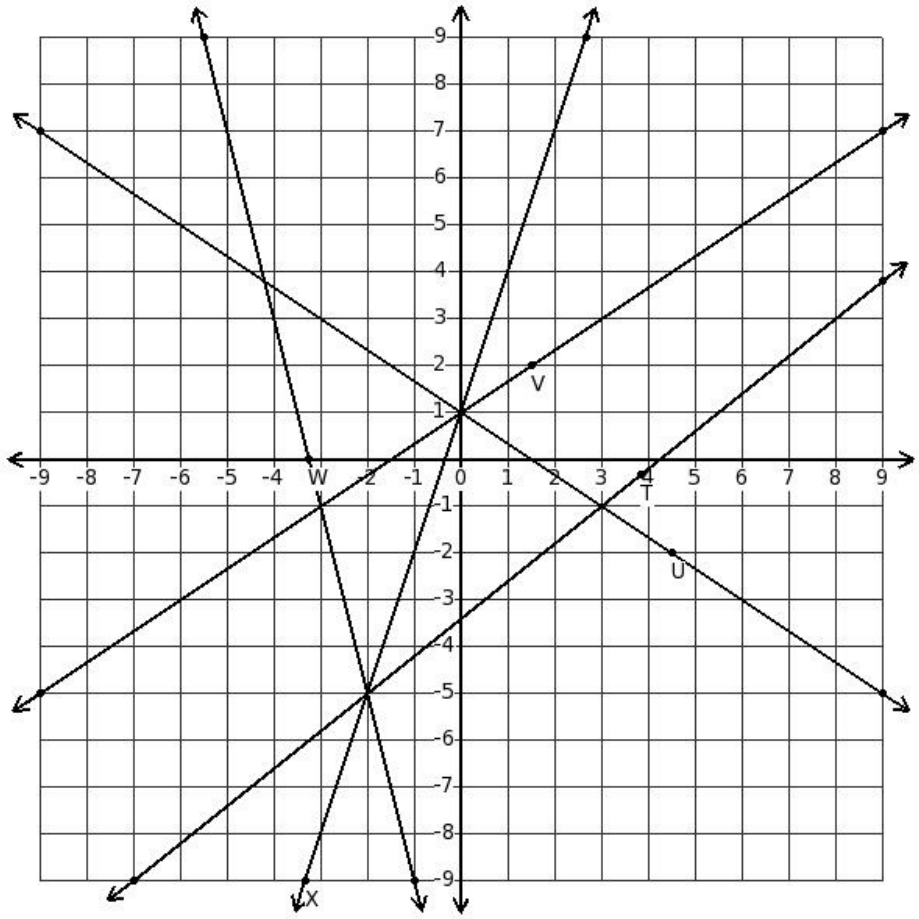
Grade : CBSE Grade IX

License : Non Commercial Use

1. Which of the following equations satisfy the given points $((-2),\frac{1}{3}),((-1),(-\frac{1}{9})),(0,(-\frac{5}{9})),(1,(-1)),(2,(-\frac{13}{9}))$?

(i) $x=(\frac{4}{9}y-4)$ (ii) $(4x+5y-2)=0$ (iii) $(-4x-9y-5)=0$ (iv) $x=(-4)$ (v) $y=0$

2. Which of the displayed lines represent the equation $y=(\frac{4}{5}x-\frac{17}{5})$



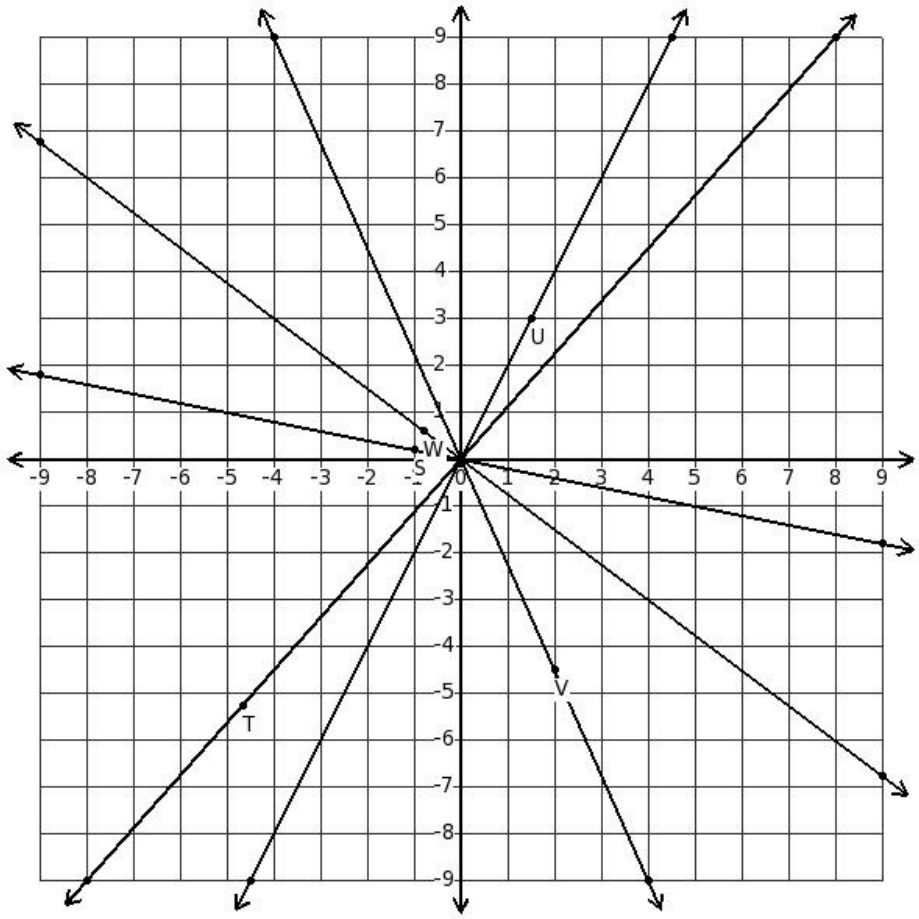
(i) line with point U (ii) line with point V (iii) line with point T (iv) line with point W (v) line with point X

3. The points $B((-3),10)$ and $D((-11),8)$ are the opposite vertices of a square ABCD. Find the equation of the diagonal AC

(i) $(8x+2y+38)=0$ (ii) $(-2x+8y-86)=0$ (iii) $(7x+2y+38)=0$ (iv) $(8x+4y+38)=0$

(v) $(-2x+6y-86)=0$

4. Which of the displayed lines represent the equation $y=(-\frac{1}{5}x)$



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

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

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

6. Which of the following are true?

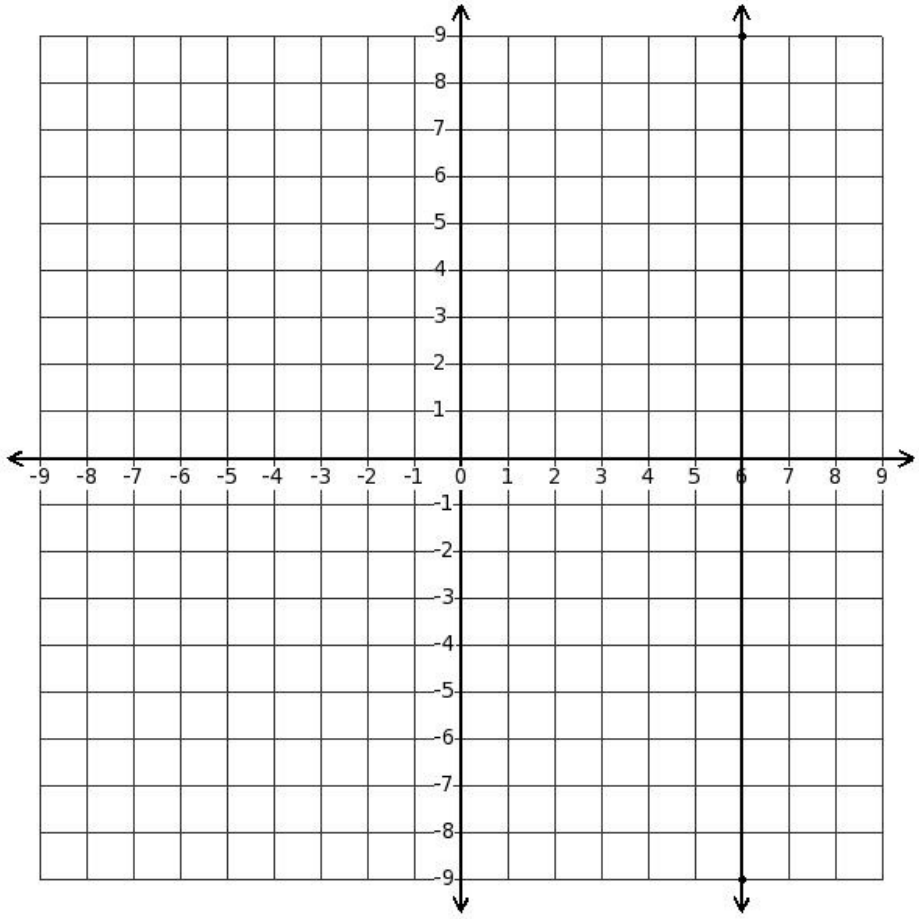
a) The ordinate of every point on y-axis is zero
b) The abscissa of every point on x-axis is zero
c) The abscissa of every point on y-axis is zero
d) The ordinate of every point on x-axis is zero

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

7. Any line parallel to x-axis is

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

8. Find the equation of the displayed line



(i) $3x=6$ (ii) $x=7$ (iii) $x=6$ (iv) $y=6$ (v) $x=5$

9. The value of x in terms of other variables and constant in $(5x-3y+3)=(-x-4y-7)$ is

(i) $x=(-\frac{1}{6}y-1)$ (ii) $x=(-\frac{1}{6}y-\frac{7}{3})$ (iii) $x=(-\frac{1}{6}y-\frac{5}{3})$ (iv) $x=(-\frac{1}{4}y-\frac{5}{3})$ (v) $x=(-\frac{1}{8}y-\frac{5}{3})$

10. Find the set of points satisfying the equation $y=(-4x-22)$

(i) $((-2),(-14)),((-1),(-18)),((-2),(-24)),(1,(-26)),(2,(-30))$

(ii) $((-2),(-14)),((-1),(-18)),(0,(-22)),(1,(-26)),(4,(-28))$

(iii) $((-2),(-14)),((-1),(-18)),(0,(-22)),(1,(-26)),(2,(-30))$

(iv) $((-2),(-14)),((-1),(-18)),(0,(-22)),(0,(-25)),(2,(-30))$

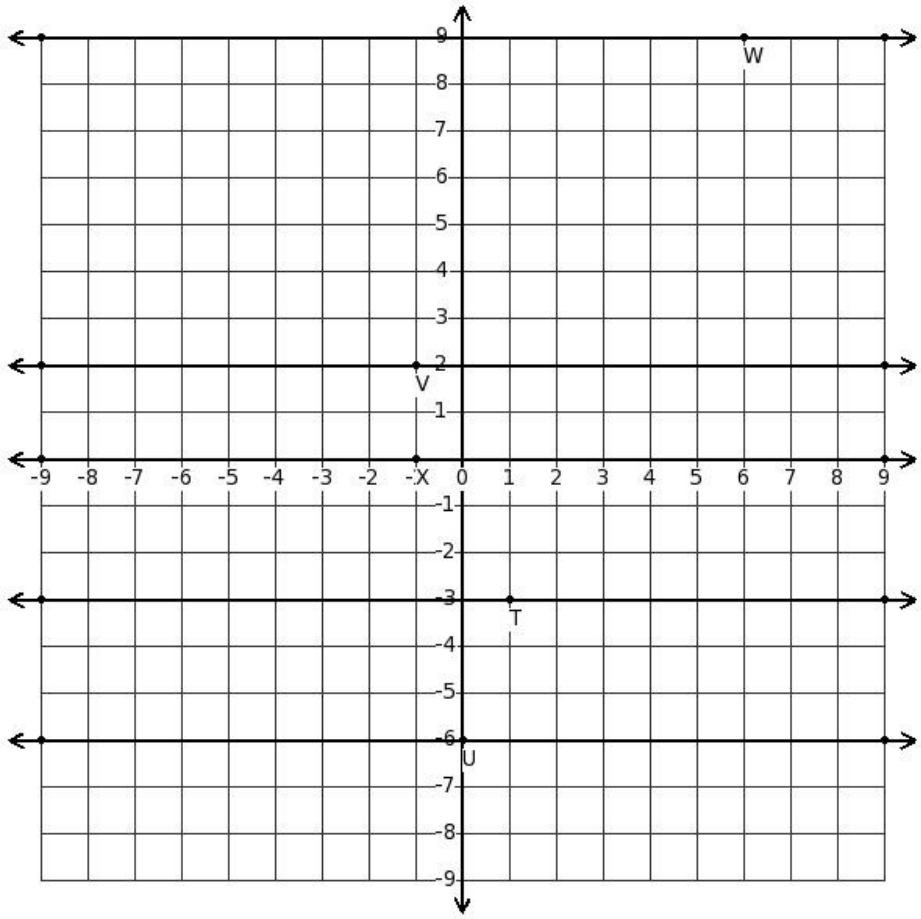
(v) $((-2),(-14)),((-1),(-18)),(1,(-23)),(1,(-26)),(2,(-30))$

11. The equation of the x-axis is

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

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

12. Which of the displayed lines represent the equation $y=(-3)$



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

13. Find the set of points satisfying the equation $y=(-9)$

(i) $((-2),(-9)),((-1),(-9)),(0,(-9)),(1,(-9)),(4,(-7))$

(ii) $((-2),(-9)),((-1),(-9)),(1,(-10)),(1,(-9)),(2,(-9))$

(iii) $((-2),(-9)),((-1),(-9)),(0,(-9)),(0,(-8)),(2,(-9))$

(iv) $((-2),(-9)),((-1),(-9)),((-2),(-11)),(1,(-9)),(2,(-9))$

(v) $((-2),(-9)),((-1),(-9)),(0,(-9)),(1,(-9)),(2,(-9))$

14. The value of y in terms of other variables and constant in $(2x-y-1)=(-4x-8y-7)$ is

(i) $y=(-\frac{6}{7}x-\frac{6}{7})$ (ii) $y=(-\frac{6}{5}x-\frac{6}{7})$ (iii) $y=(-\frac{6}{7}x-\frac{4}{7})$ (iv) $y=(-\frac{2}{3}x-\frac{6}{7})$ (v) $y=(-\frac{6}{7}x-\frac{8}{7})$

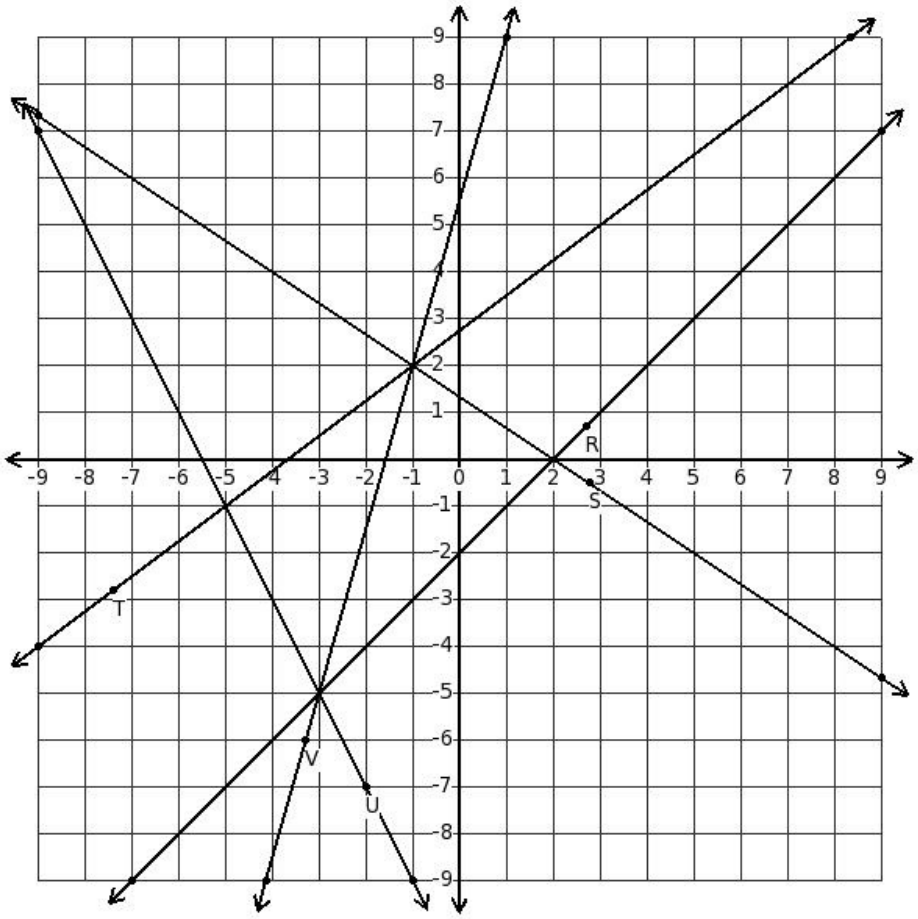
15. Find the set of points satisfying the equation $x=0$

(i) $(0,(-2)),(0,(-1)),(1,(-1)),(0,1),(0,2)$ (ii) $(0,(-2)),(0,(-1)),(0,0),((-1),2),(0,2)$

(iii) $(0,(-2)),(0,(-1)),(0,0),(0,1),(0,2)$ (iv) $(0,(-2)),(0,(-1)),(0,0),(0,1),(2,4)$

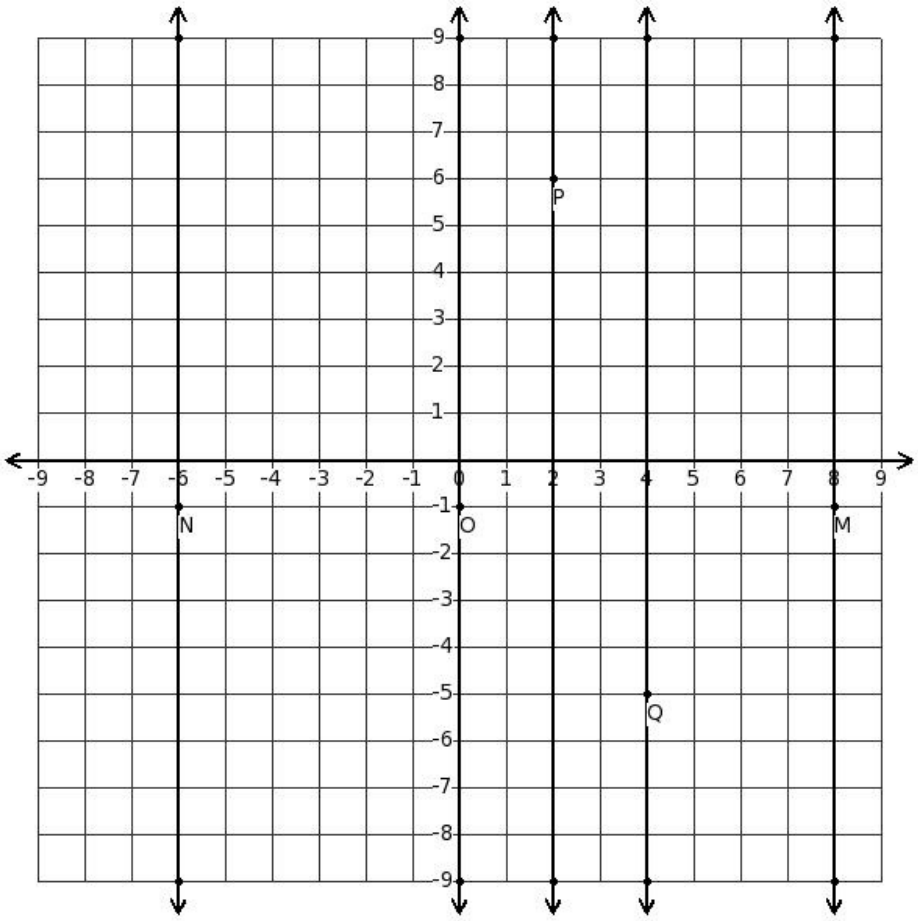
(v) $(0,(-2)),(0,(-1)),((-2),(-2)),(0,1),(0,2)$

16. Which of the displayed lines represent the equation $(5x-5y-10)=0$?



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

17. Which of the displayed lines represent the equation $x=8$



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

18. Write the given equation $y=(x-1)$ in $ax+by+c=0$ form

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

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

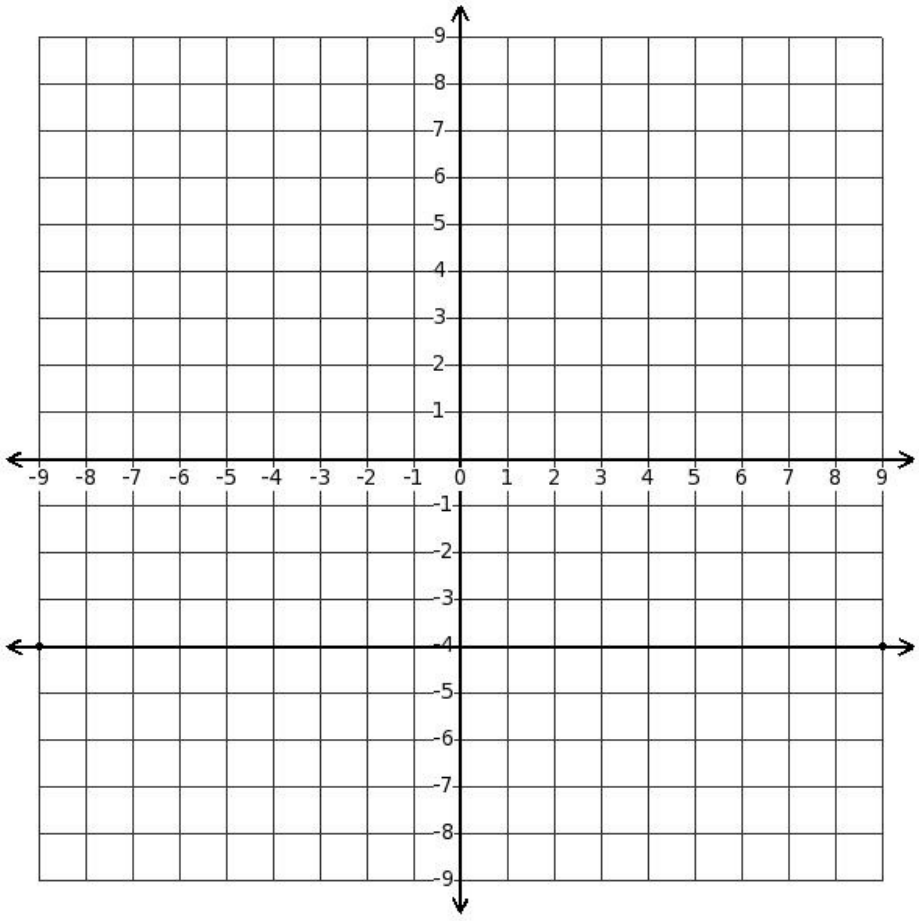
(i) $(-12x+4y-52)=0$ (ii) $(6x-15y-78)=0$ (iii) $(3x+2y-20)=0$ (iv) $(3x+9y-27)=0$

(v) $(x-6y)=0$

20. Find the equation of a straight line parallel to x-axis and passing through the point $(5,(-8))$

(i) $y=(-9)$ (ii) $x=8$ (iii) $x=5$ (iv) $y=(-8)$ (v) $y=(-6)$

21. Find the equation of the displayed line



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

22. Which of the following are true?

a) Equation of the line passing through origin is y = x
b) Equation of the line passing through origin is $y=mx+c$
c) Equation of the line passing through origin is $y=mx$
d) Equation of the line passing through origin is y = mx + 7

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

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

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

24. Find the set of points satisfying the equation $y=\frac{11}{8}x$

(i) $((-2),(-\frac{11}{4})),((-1),(-\frac{11}{8})),(0,0),(0,\frac{19}{8}),(2,\frac{11}{4})$

(ii) $((-2),(-\frac{11}{4})),((-1),(-\frac{11}{8})),(1,(-1)),(1,\frac{11}{8}),(2,\frac{11}{4})$

(iii) $((-2),(-\frac{11}{4})),((-1),(-\frac{11}{8})),((-2),(-2)),(1,\frac{11}{8}),(2,\frac{11}{4})$

(iv) $((-2),(-\frac{11}{4})),((-1),(-\frac{11}{8})),(0,0),(1,\frac{11}{8}),(4,\frac{19}{4})$

(v) $((-2),(-\frac{11}{4})),((-1),(-\frac{11}{8})),(0,0),(1,\frac{11}{8}),(2,\frac{11}{4})$

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

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

Assignment Key

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