EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Linear Equations in two Variables

Grade : CBSE Grade IX

1. The equation of x-axis is

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

2. Find the set of points satisfying the equation $x=(-\frac{1}{2}y-\frac{3}{2})$

   (i) $((-2),1),((-1),(-1)),((-2),(-5)),(1,(-5)),(2,(-7))$

   (ii) $((-2),1),((-1),(-1)),(0,(-3)),(1,(-5)),(4,(-5))$ (iii) $((-2),1),((-1),(-1)),(0,(-3)),(0,(-4)),(2,(-7))$

   (iv) $((-2),1),((-1),(-1)),(0,(-3)),(1,(-5)),(2,(-7))$ (v) $((-2),1),((-1),(-1)),(1,(-4)),(1,(-5)),(2,(-7))$

3. The equation of the x-axis is

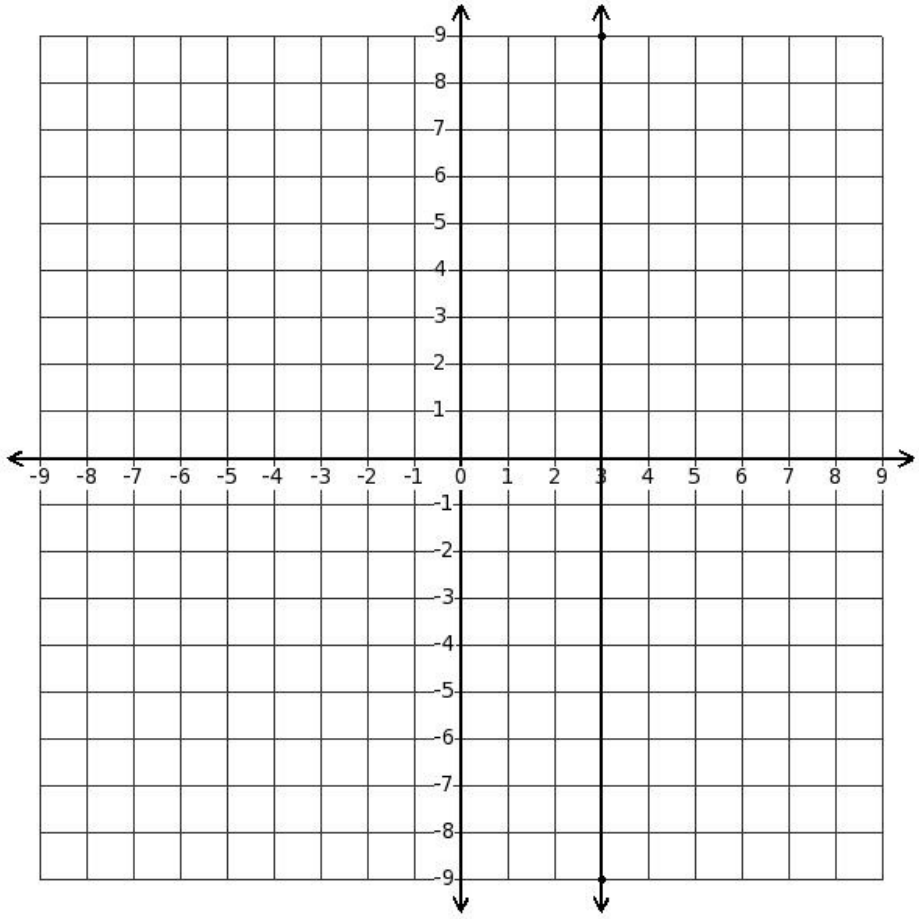
   a) $x=y$
   b) $x=1$
   c) $y=1$
   d) $x=0$
   e) $y=0$

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

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

   (i) $(6x-4y)=0$ (ii) $(-7x+2y)=0$ (iii) $(y+7)=0$ (iv) $(-8x-y)=0$ (v) $(6x+y)=0$

5. Find the equation of the displayed line



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

6. The value of x in terms of other variables and constant in $(-4x+5y-9)=(-8x+9y-3)$ is

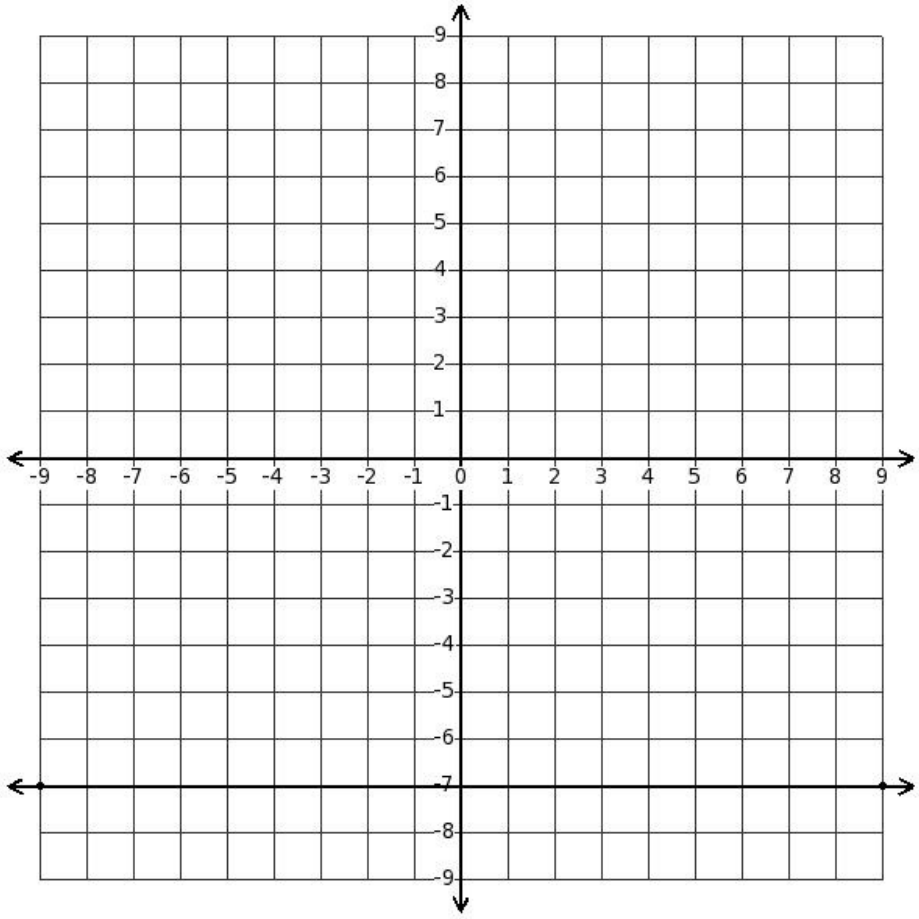
(i) $x=(y+\frac{5}{2})$ (ii) $x=(2y+\frac{3}{2})$ (iii) $x=(y+\frac{1}{2})$ (iv) $x=(y+\frac{3}{2})$ (v) $x=\frac{3}{2}$

7. Which of the following are true?

a) Equation of the line passing through origin is $y=mx+c$
b) Equation of the line passing through origin is y = x
c) Equation of the line passing through origin is y = mx +2
d) Equation of the line passing through origin is $y=mx$

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

8. Find the equation of the displayed line



(i) $y=(-7)$ (ii) $x=(-7)$ (iii) $y=(-6)$ (iv) $4y=(-7)$ (v) $y=(-8)$

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

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

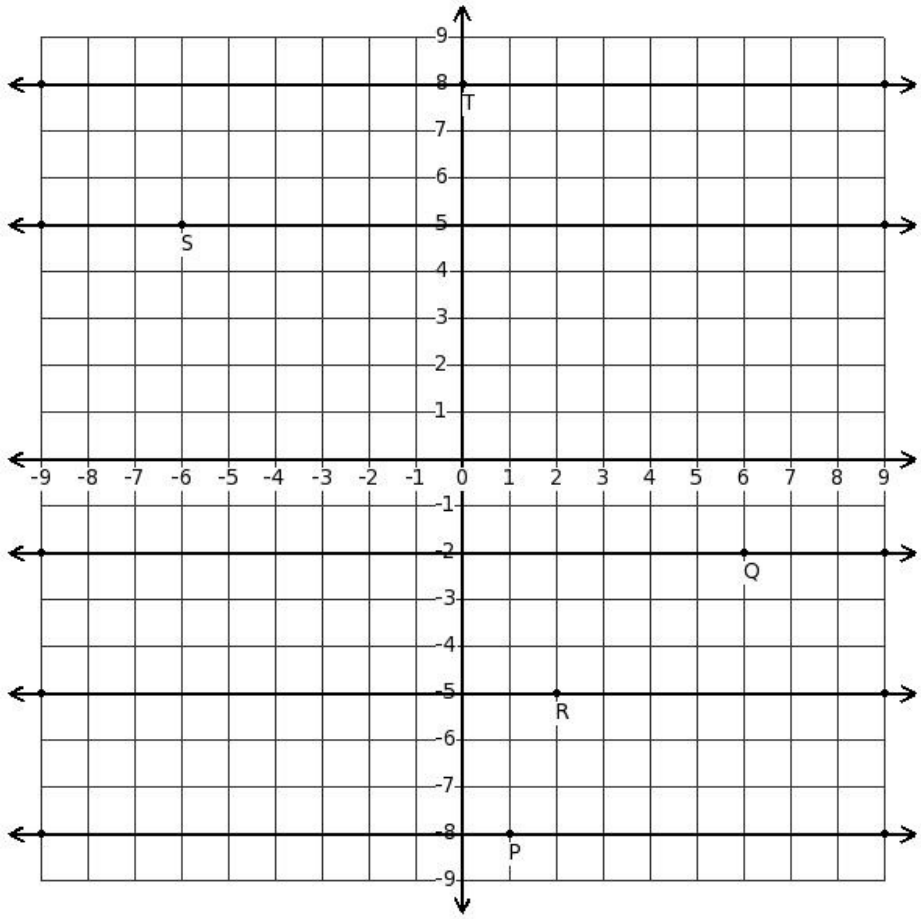
10. The points $B(1,5)$ and $D((-5),5)$ are the opposite vertices of a square ABCD. Find the equation of the diagonal AC

(i) $(6x+14)=0$ (ii) $(6y-30)=0$ (iii) $(6x+12)=0$ (iv) $(5x+12)=0$ (v) $(6y-33)=0$

11. Write the given equation $y=(-\frac{1}{2}x-6)$ in $ax+by+c=0$ form

(i) $(\frac{1}{2}x+y+6)=0$ (ii) $(\frac{1}{2}x-2y+6)=0$ (iii) $(\frac{1}{2}x+3y+6)=0$ (iv) $(\frac{1}{4}x+y+6)=0$ (v) $(x+y+6)=0$

12. Which of the displayed lines represent the equation $y=(-8)$



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

13. Any line parallel to x-axis is

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

14. Any line parallel to y-axis is

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

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

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

16. Which of the following are true?

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

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

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

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

18. Which of the following equations satisfy the given points $(9,(-2)),(9,(-1)),(9,0),(9,1),(9,2)$?

(i) $(-12x-11y-29)=0$ (ii) $(27x+25y-15)=0$ (iii) $x=9$ (iv) $y=(-\frac{12}{11}x+\frac{141}{11})$ (v) $x=(\frac{12}{11}y+\frac{63}{11})$

19. Find the set of points satisfying the equation $y=(-6x+28)$

(i) $((-2),40),((-1),34),(1,27),(1,22),(2,16)$ (ii) $((-2),40),((-1),34),(0,28),(1,22),(4,18)$

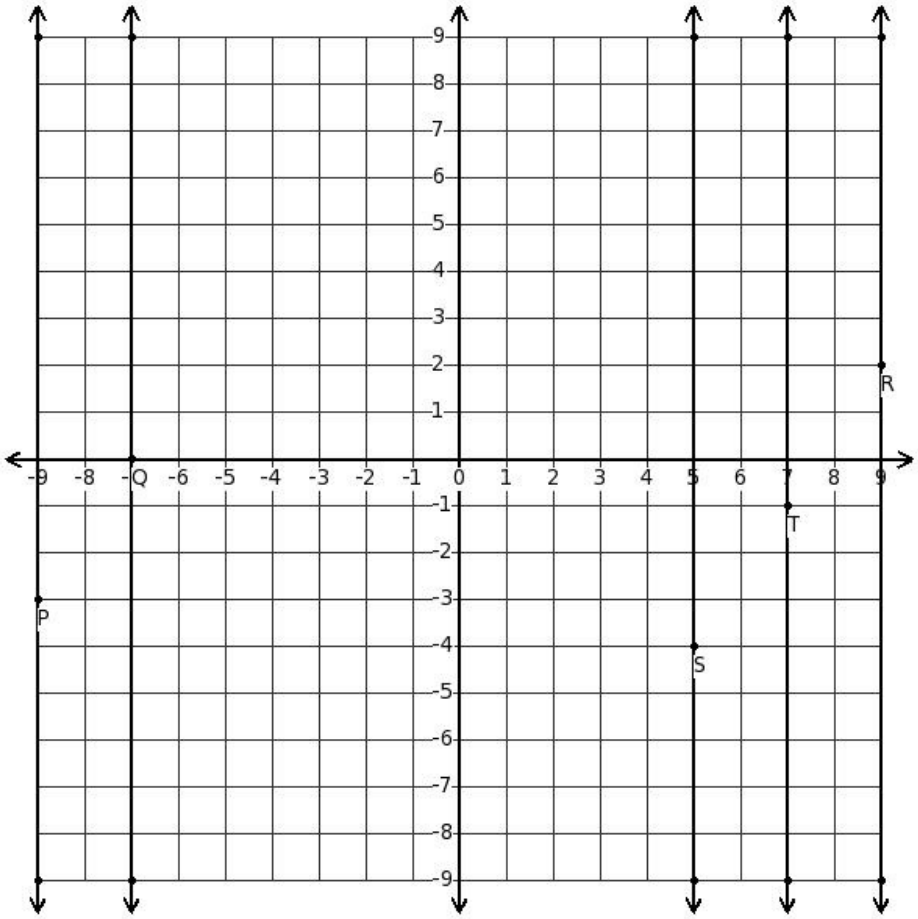
(iii) $((-2),40),((-1),34),(0,28),(0,23),(2,16)$ (iv) $((-2),40),((-1),34),((-2),26),(1,22),(2,16)$

(v) $((-2),40),((-1),34),(0,28),(1,22),(2,16)$

20. Find the equation of a straight line parallel to x-axis and passing through the point $((-3),(-1))$

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

21. Which of the displayed lines represent the equation $x=(-9)$



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

22. Which of the following is a linear equation in two variable?

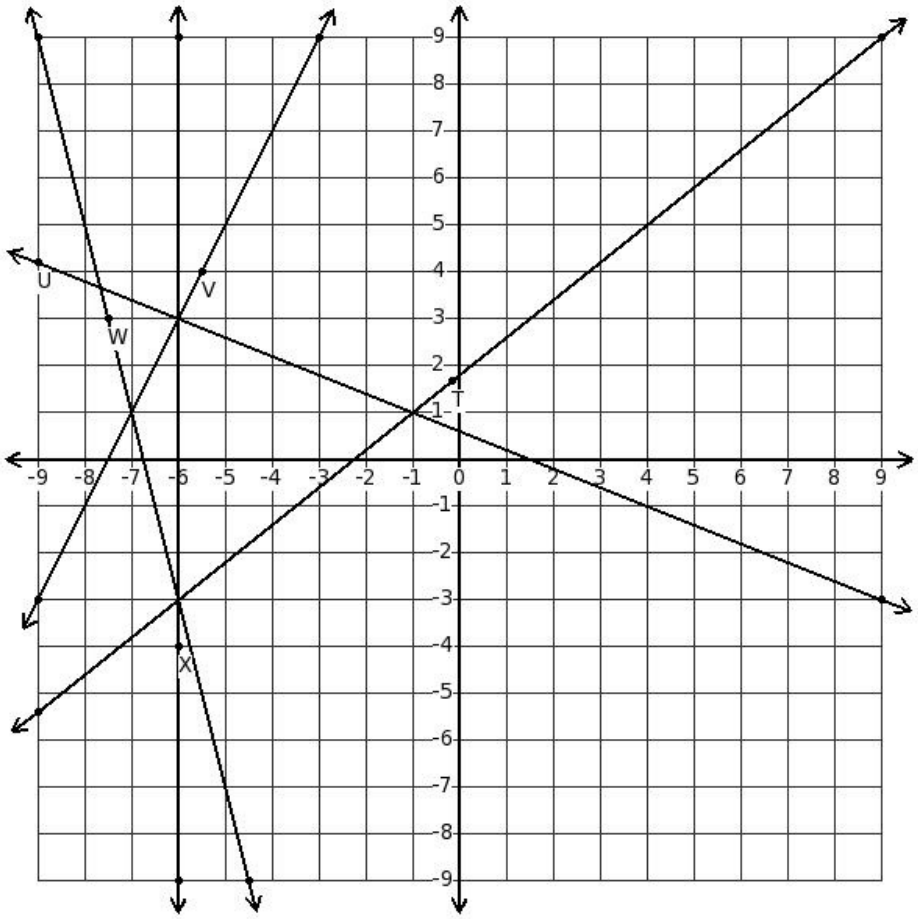
(i) $(4x-3)=0$ (ii) $(-4x-8y-2)=0$ (iii) $(-48x^2-22xy+84x+15y^2+12y-36)=0$

(iv) $(x+7y+7z-5)=0$ (v) $20x^2=0$

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

(i) $y=(-5)$ (ii) $x=5$ (iii) $y=(-8)$ (iv) $x=7$ (v) $x=4$

24. Which of the displayed lines represent the equation $(4x-5y+9)=0$?



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

25. Which of the following equations satisfy the given points $((-2),3),((-1),\frac{5}{3}),(0,\frac{1}{3}),(1,(-1)),(2,(-\frac{7}{3}))$?

(i) $(4x+3y-1)=0$ (ii) $x=(\frac{11}{9}y-\frac{56}{9})$ (iii) $x=(-5)$ (iv) $(-11x-9y-21)=0$ (v) $y=(-\frac{11}{9}x-\frac{46}{9})$

Assignment Key

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