EduSahara™ Assignment

Name : Solution of Pair of Linear Equations using Graphs

Chapter : Pair of Linear Equations in Two Variables

Grade : SSC Grade X

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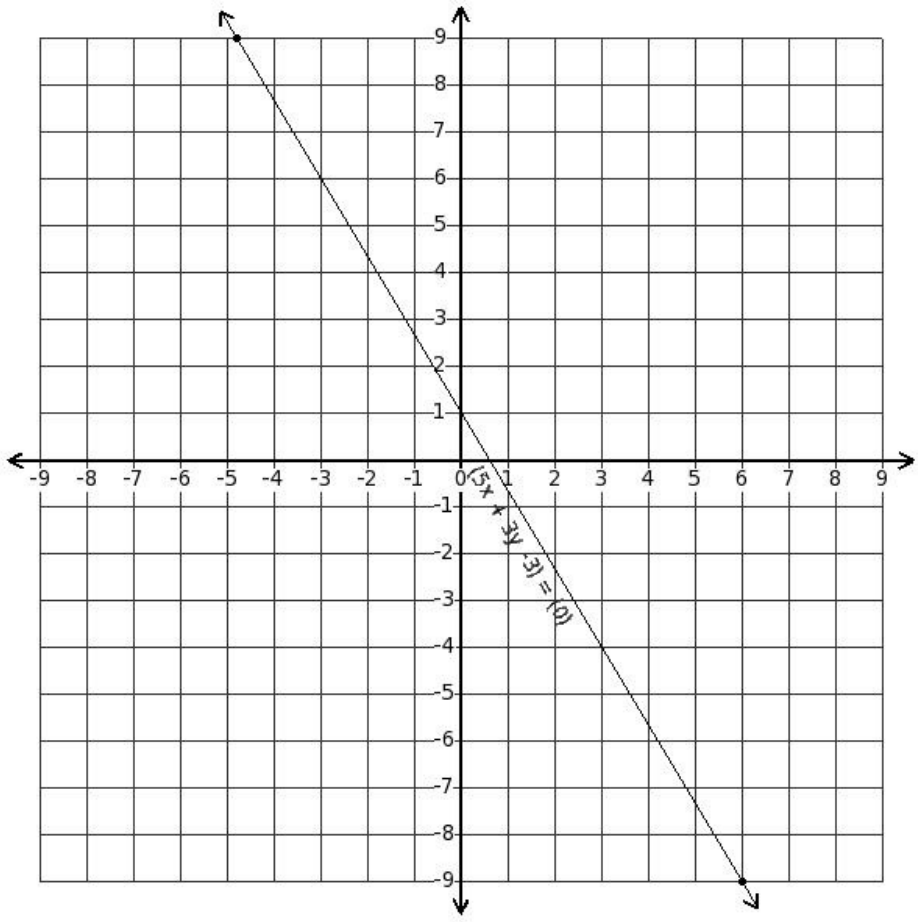
1. Which of the following are true ?

   a) Equations of two parallel lines have the same constant and coefficients of x and y will not be same
   b) Equations of two parallel lines differ in the constant term only, coefficients of x and y will be same
   c) Equations of two parallel lines differ in the constant and coefficients of x and y will not be same
   d) Equations of two parallel lines have the same constant and coefficients of x and y will be same

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

2. Find the equation parallel to the given equation



   (i) $(8x+3y+48)=0$ (ii) $(5x+3y+1)=0$ (iii) $(2x+3y+18)=0$ (iv) $(-3x+5y-7)=0$

3. Find the equation parallel to the given equation $(3x-y+7)=0$

   (i) $(x+3y-17)=0$ (ii) $(3x-y+8)=0$ (iii) $(-4x+y+18)=0$ (iv) $(-2x+3y-12)=0$

4. Find the equation of a straight line parallel to x-axis and passing through the point $(9,(-5))$

   (i) $x=11$ (ii) $y=(-6)$ (iii) $x=9$ (iv) $y=(-2)$ (v) $y=(-5)$

5. Find the equation of a straight line parallel to y-axis and passing through the point $((-2),(-2))$

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

6. Find the value of k such that $(3x-7y+44)=0$ and $(kx+7y-33)=0$ are parallel to each other

(i) -5 (ii) 0 (iii) -2 (iv) -4 (v) -3

7. Which of the following pairs of lines are parallel?

(i) $(x-13y+8)=0, (12x+y+45)=0$ (ii) $(x-13y+8)=0, (-14x+13y-97)=0$

(iii) $(x-13y+8)=0, (-x+13y-19)=0$ (iv) $(x-13y+8)=0, (13x+y+49)=0$

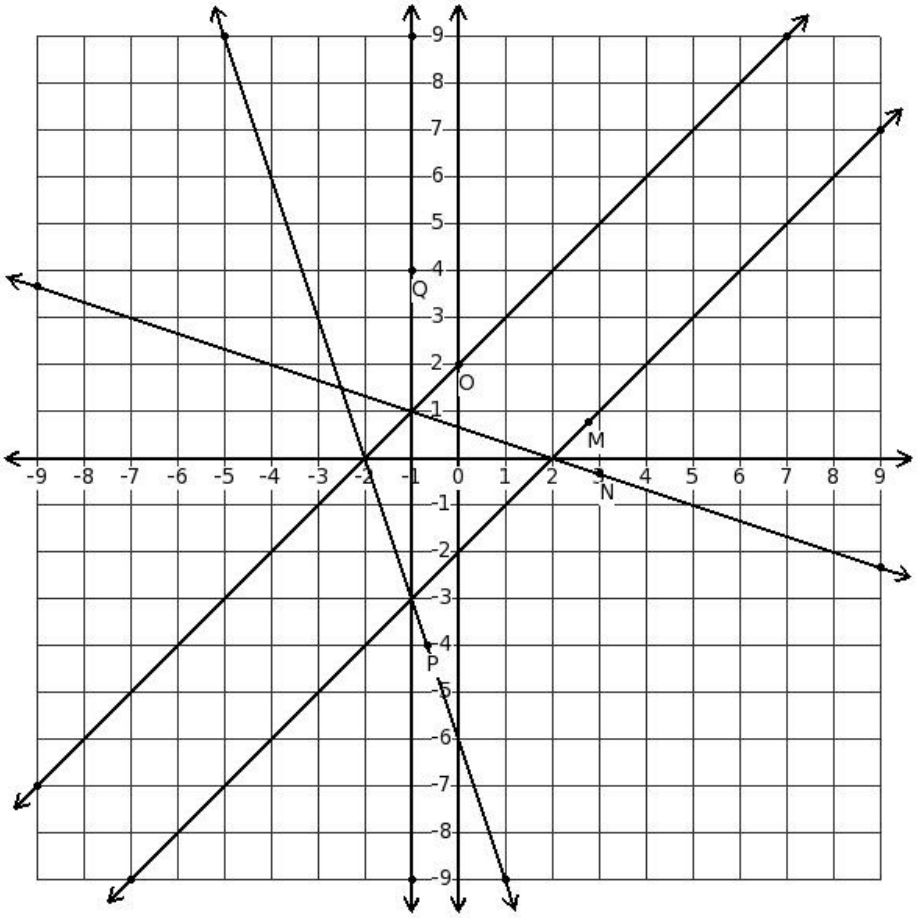
8. Which of the following lines pass through the origin?

(i) $(3x-4y)=0$ (ii) $(6x-24)=0$ (iii) $(5x-11y-53)=0$ (iv) $(10y-30)=0$ (v) $(-11x+y-69)=0$

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

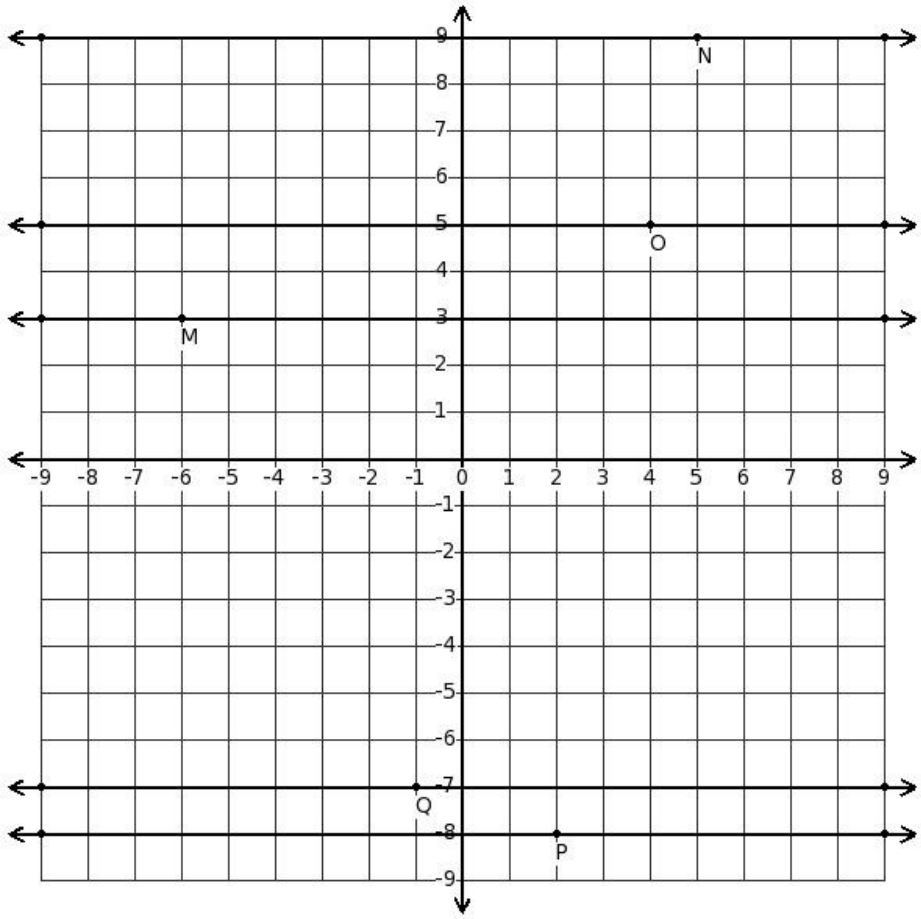
(i) $(4x-8y)=0$ (ii) $(-8x+4y)=0$ (iii) $(-2x-4y)=0$ (iv) $(-x+11y+84)=0$ (v) $(3x+3y)=0$

10. Which of the displayed lines represent the equation $(3x-3y-6)=0$?



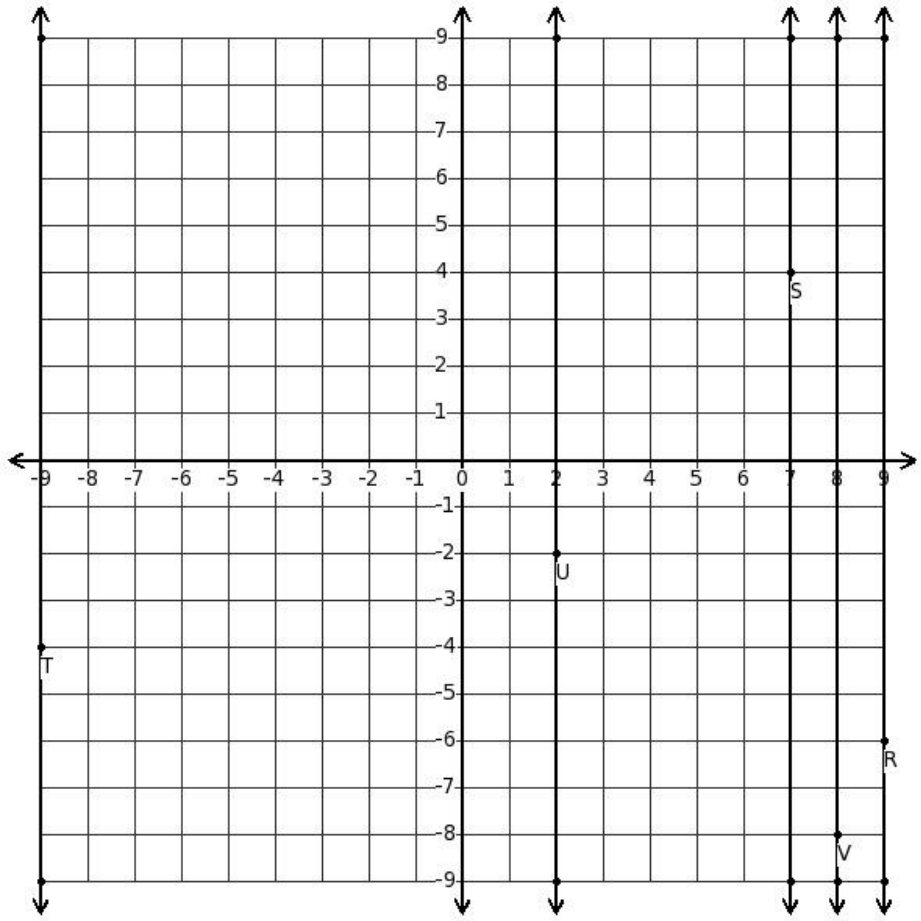
(i) line with point O (ii) line with point P (iii) line with point N (iv) line with point Q (v) line with point M

11. Which of the displayed lines represent the equation $y = 3$



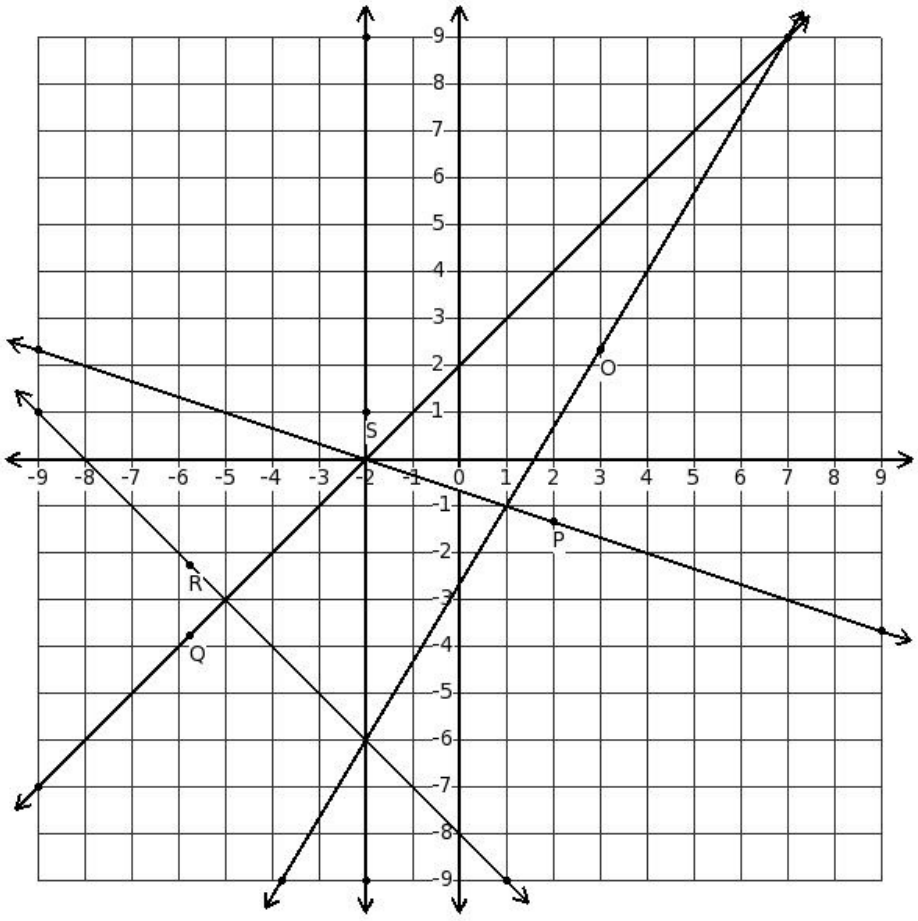
(i) line with point N (ii) line with point P (iii) line with point Q (iv) line with point O (v) line with point M

12. Which of the displayed lines represent the equation $x = 9$



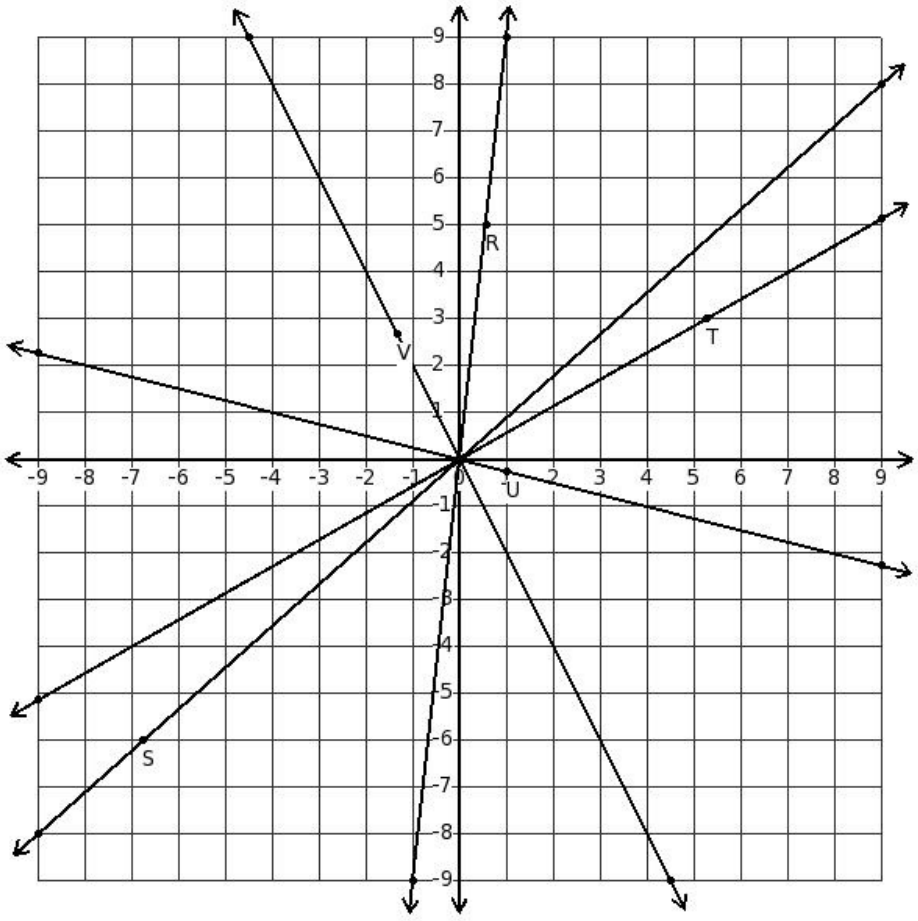
(i) line with point V (ii) line with point S (iii) line with point T (iv) line with point R (v) line with point U

13. Which of the displayed lines represent the equation $y=(\frac{5}{3}x-\frac{8}{3})$



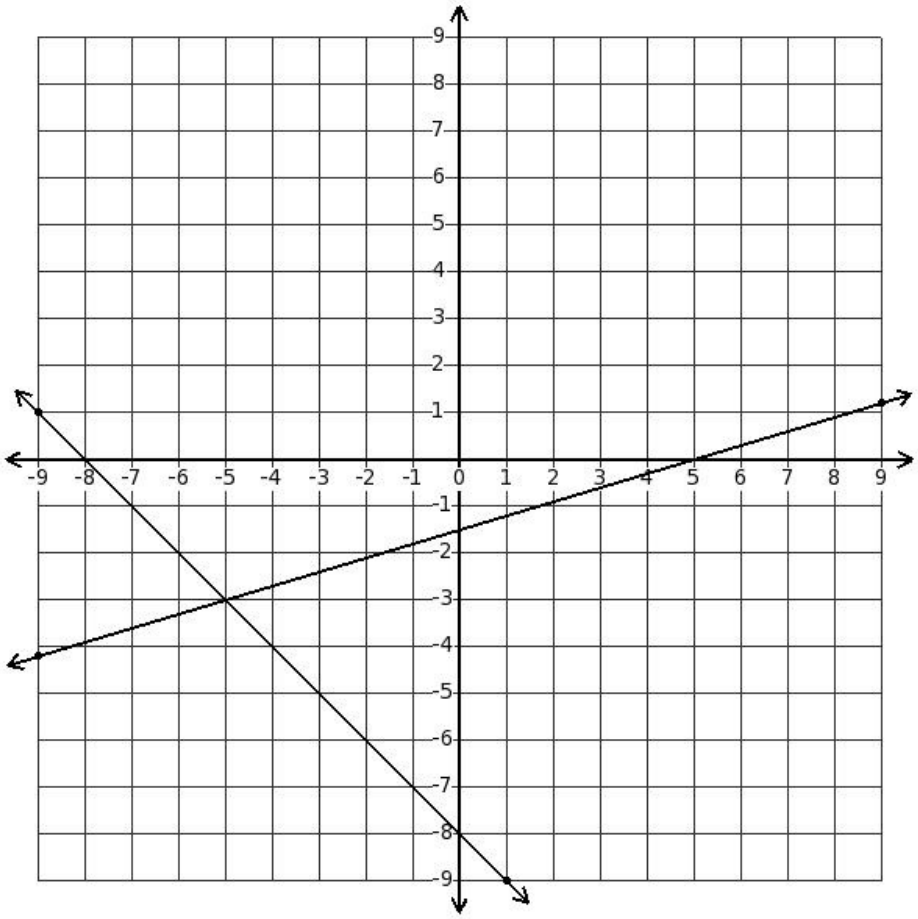
(i) line with point Q (ii) line with point P (iii) line with point R (iv) line with point S (v) line with point O

14. Which of the displayed lines represent the equation $y=9x$



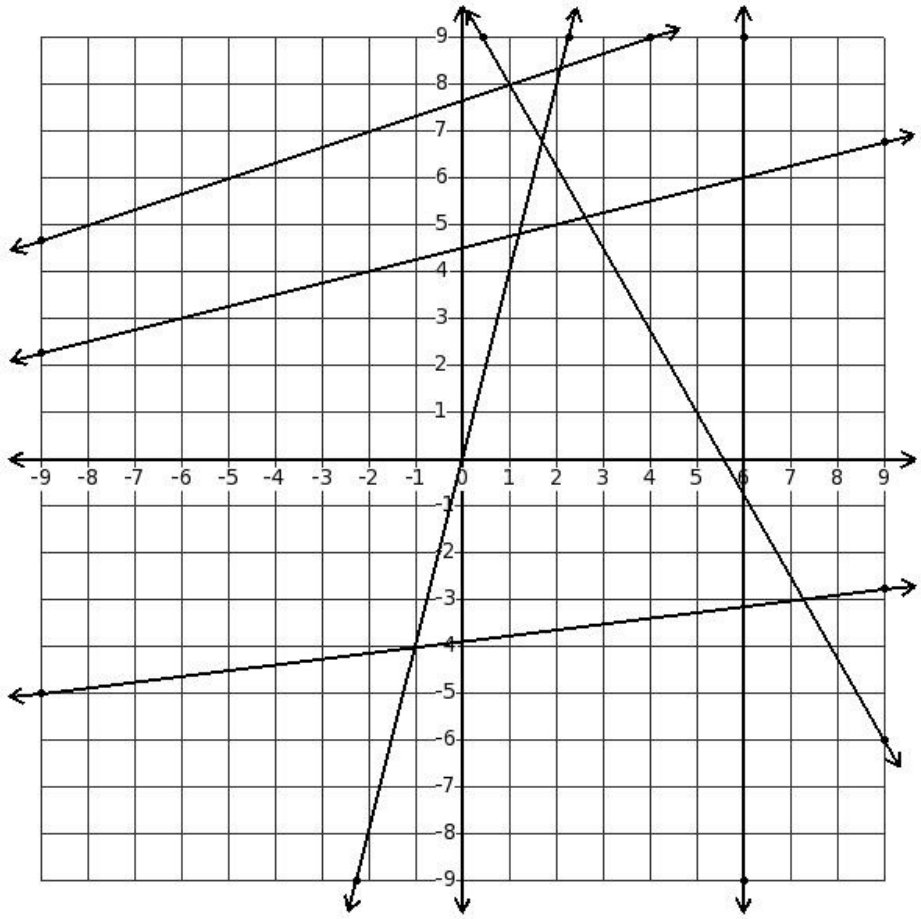
(i) line with point U (ii) line with point S (iii) line with point T (iv) line with point R (v) line with point V

15. Solve $(-3x+10y+15)=0$
$(-x-y-8) = 0$



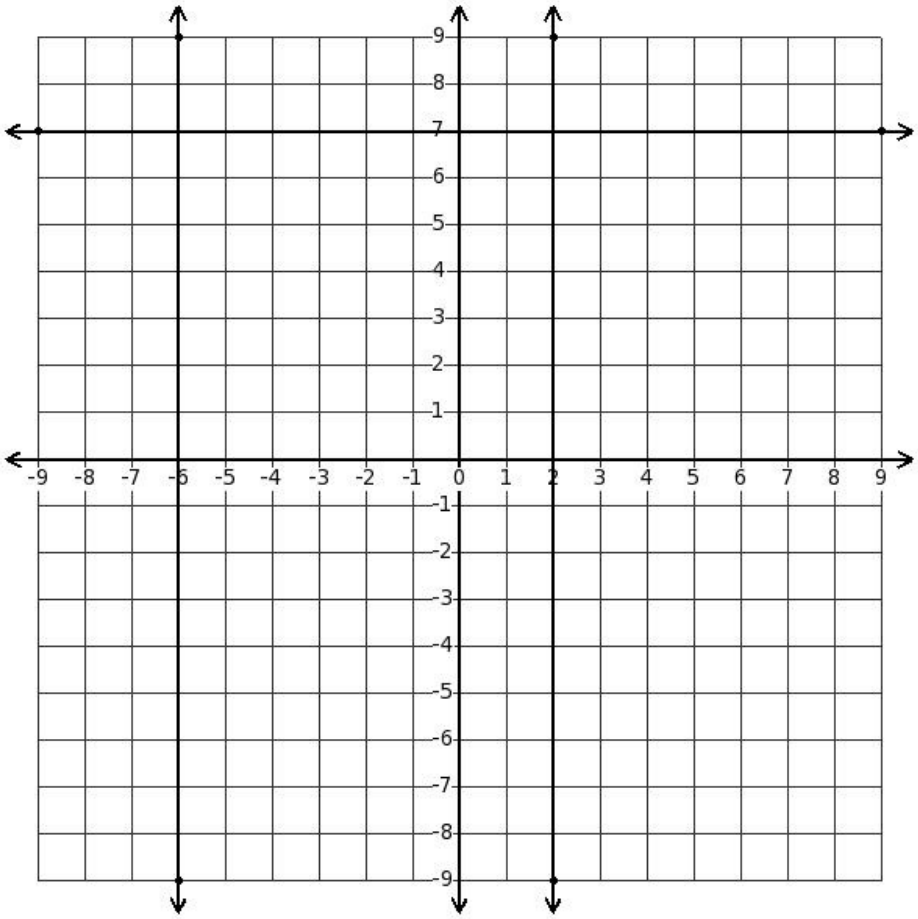
(i) $((-3),(-1))$ (ii) $((-7),(-5))$ (iii) $((-6),(-2))$ (iv) $((-5),(-3))$ (v) $((-4),(-4))$

16. Solve $(-x+8y+31)=0$
$(8x-2y) = 0$



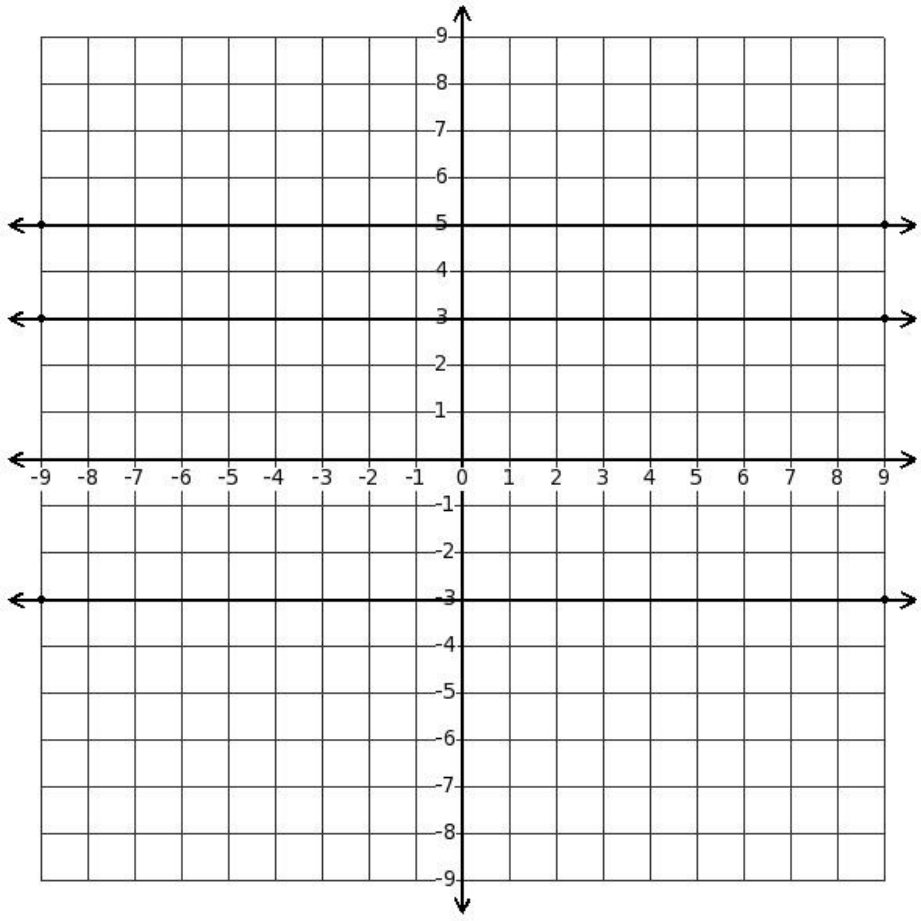
(i) $(1,8)$ (ii) $(1,(-2))$ (iii) $((-3),(-6))$ (iv) $(6,6)$ (v) $((-1),(-4))$

17. Solve $(x+6)=0$
$(x-2)=0$



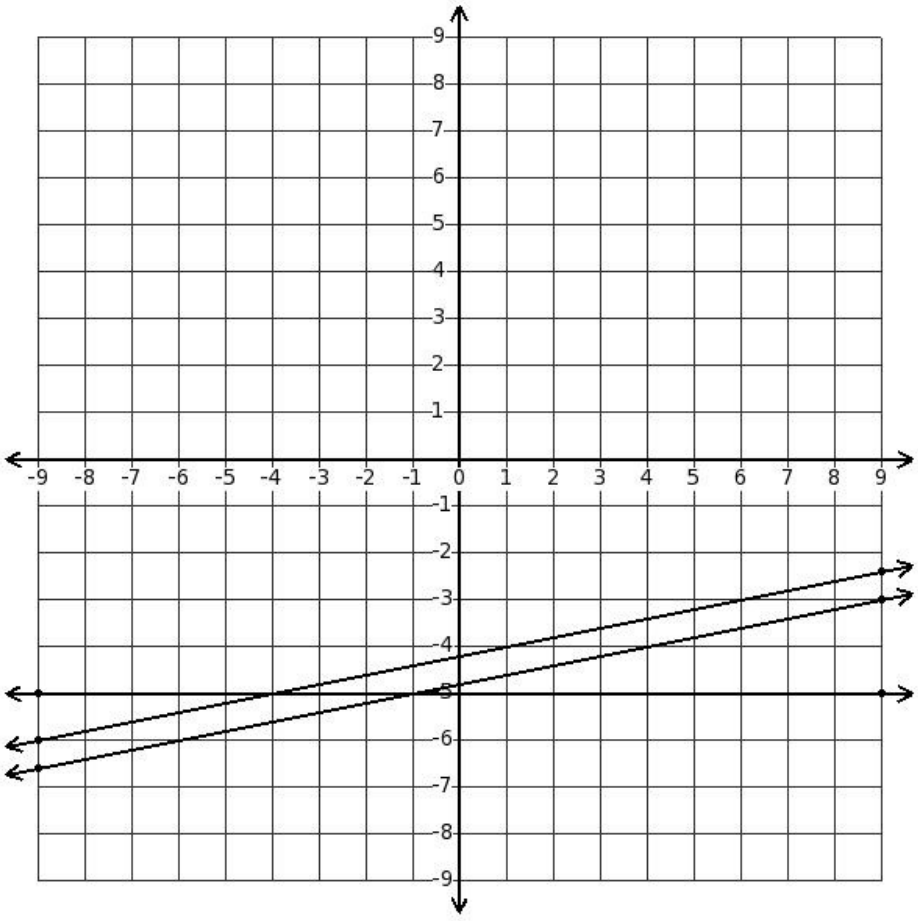
(i) $(6,7)$ (ii) No solution (iii) $(4,5)$ (iv) Infinite solutions (v) $((-4),7)$

18. Solve $(y+3)=0$
$(y-5)=0$



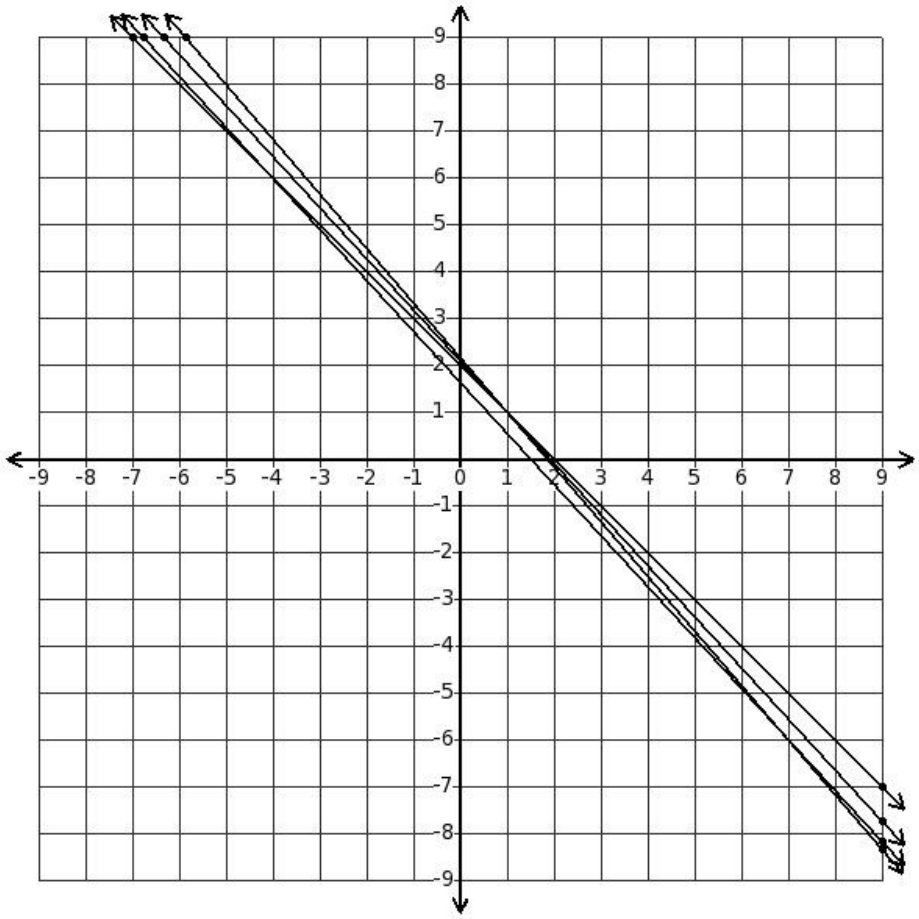
(i) $((-2),3)$ (ii) Infinite solutions (iii) $((-5),1)$ (iv) $((-3),3)$ (v) No solution

19. Solve $\begin{matrix}(x-5y-21) &= 0\\ (-x+5y+24) &= 0\end{matrix}$



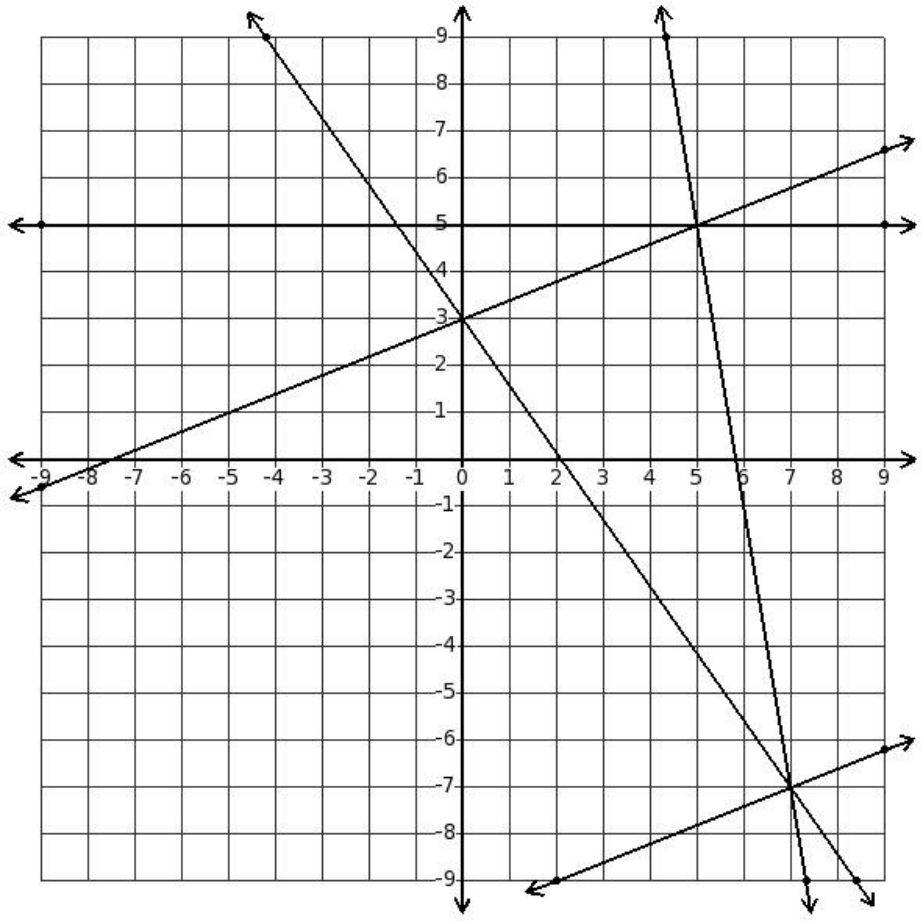
(i) Infinite solutions (ii) $((-6),(-7))$ (iii) $((-4),(-5))$ (iv) $((-1),(-5))$ (v) No solution

20. Solve $(-12x-11y+18)=0$
$(-36x-33y+54)=0$



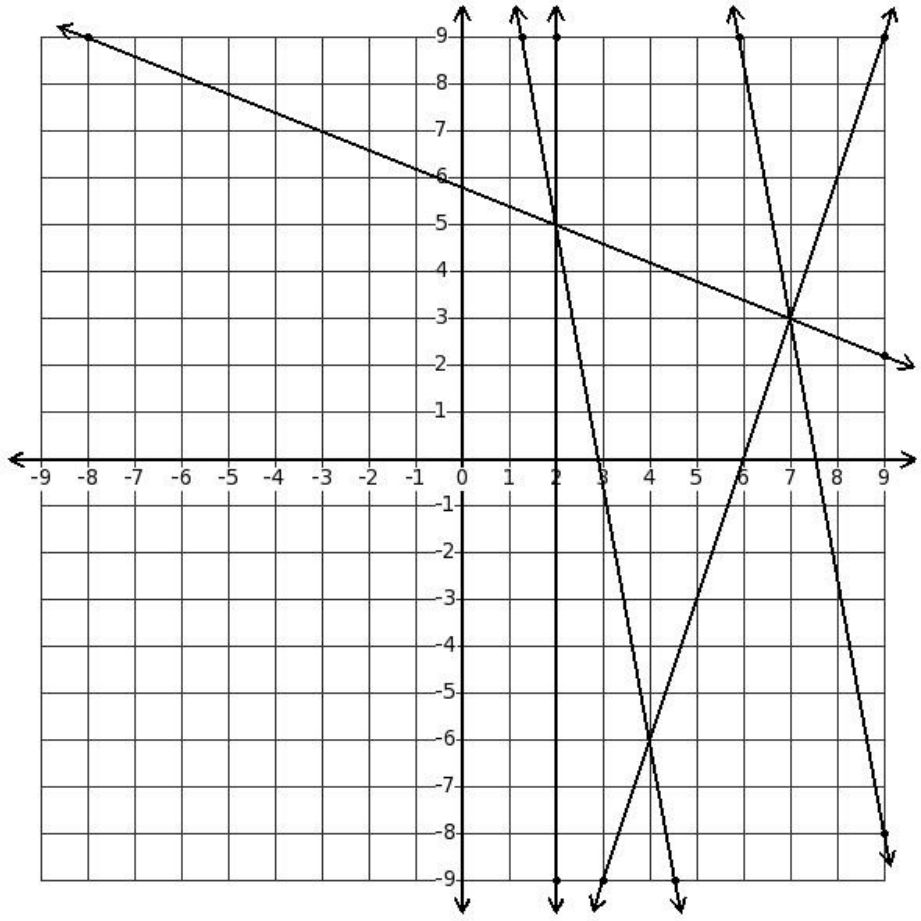
(i) No solution (ii) $(1,1)$ (iii) $(7,(-6))$ (iv) Infinite solutions (v) $((-4),6)$

21. Solve $(-2x+5y-15)=0$
$(y-5) \quad = \quad 0$



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

22. Solve $\begin{matrix}(-11x-2y+32)=0\\(x-2)\quad\quad=\quad 0\end{matrix}$



(i) $(2,5)$ (ii) $(4,(-6))$ (iii) $(0,5)$ (iv) $(7,3)$ (v) $(2,0)$

23. The ratio of coefficients of x and y in the equations of any two parallel lines is

(i) not same (ii) 1 (iii) not proportional (iv) 2 (v) same

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

(i) $(1,0)$ (ii) $(0,0)$ (iii) $(0,2)$ (iv) $(9,0)$ (v) $(1,1)$

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

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

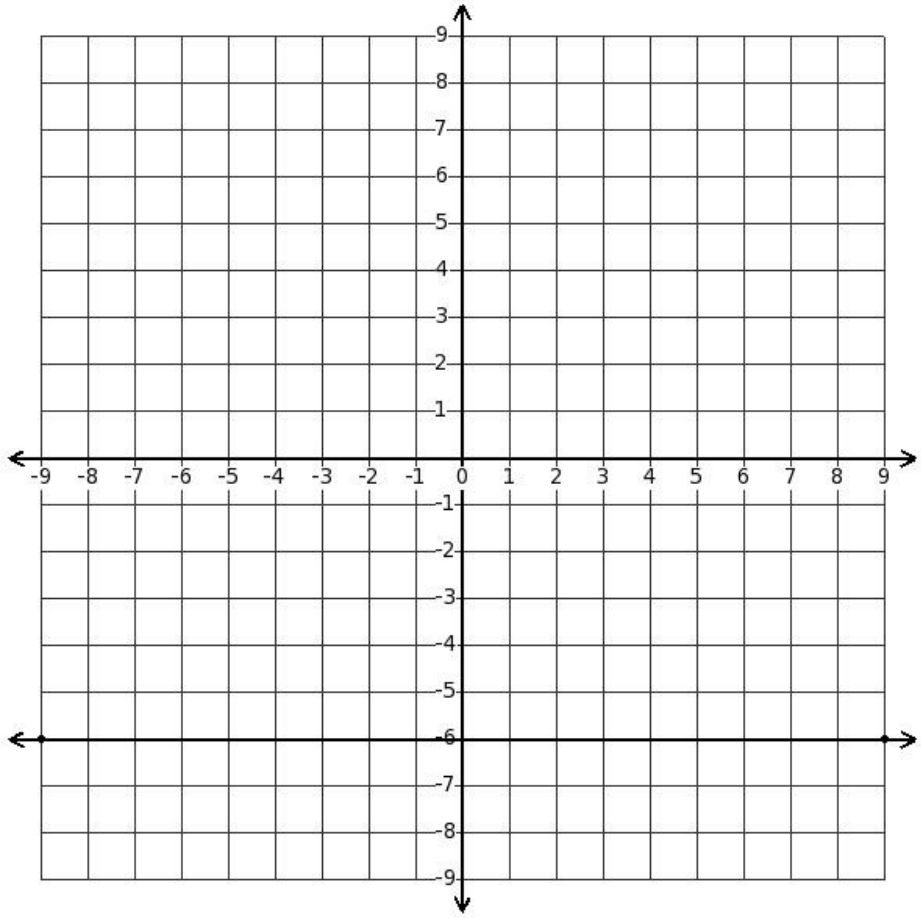
26. Equation of a straight line which is parallel to y-axis (where k is a constant) is

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

27. Write the given equation $y=(-\frac{3}{2}x+3)$ in $ax+by+c=0$ form

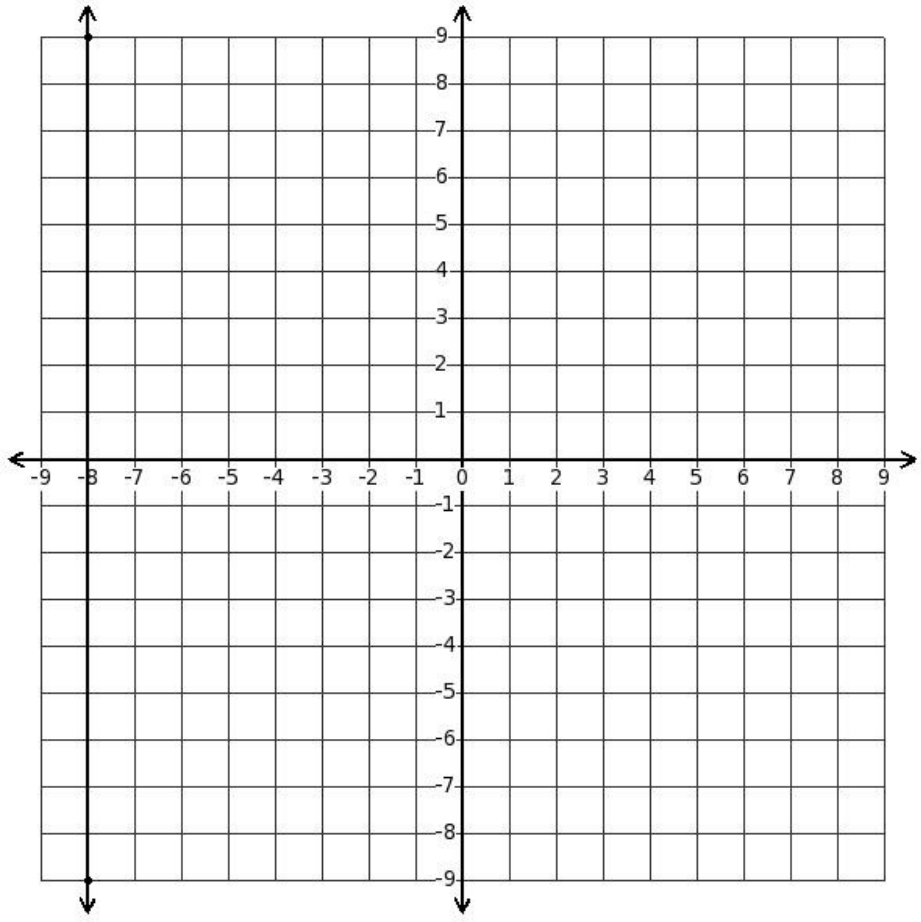
(i) $(\frac{3}{2}x+y-3)=0$ (ii) $(2x+y-3)=0$ (iii) $(\frac{5}{4}x+y-3)=0$ (iv) $(\frac{3}{2}x-y-3)=0$ (v) $(\frac{3}{2}x+3y-3)=0$

28. Find the equation of the displayed line



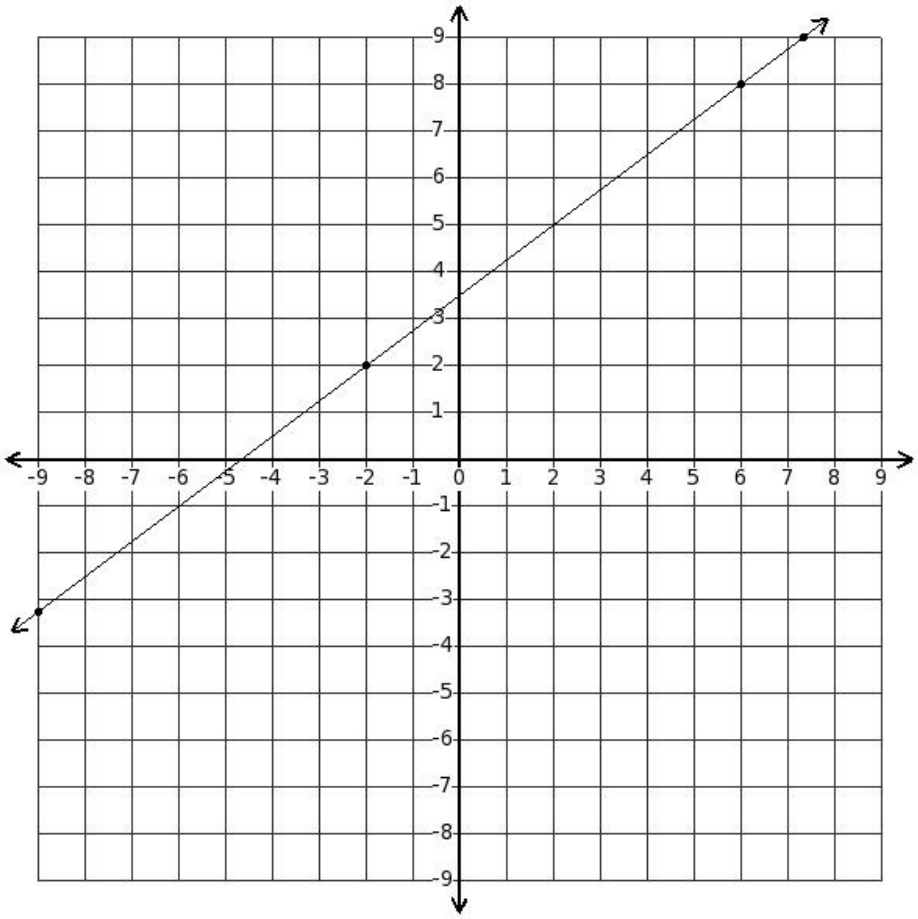
(i) $y=(-7)$ (ii) $y=(-5)$ (iii) $3y=(-6)$ (iv) $x=(-6)$ (v) $y=(-6)$

29. Find the equation of the displayed line



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

30. Find the equation of the line passing through the points $(6,8)$ and $((-2),2)$



(i) $(-6x+8y-28)=0$ (ii) $(-3x+4y-18)=0$ (iii) $(-5x+8y-28)=0$ (iv) $(-3x+4y-11)=0$

(v) $(-7x+8y-28)=0$

Assignment Key

1) (i)	2) (ii)	3) (ii)	4) (v)	5) (ii)	6) (v)
7) (iii)	8) (i)	9) (iv)	10) (v)	11) (v)	12) (iv)
13) (v)	14) (iv)	15) (iv)	16) (v)	17) (ii)	18) (v)
19) (v)	20) (iv)	21) (i)	22) (i)	23) (v)	24) (ii)
25) (iv)	26) (iii)	27) (i)	28) (v)	29) (i)	30) (i)

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