



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

- (i) (0,4) (ii) (0,0) (iii) (1,0) (iv) (1,1)

2. The equation of x-axis is

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

3. The equation of y-axis is

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

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

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

5. Any line parallel to x-axis is

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

6. Any line parallel to y-axis is

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

7. 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

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

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

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

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

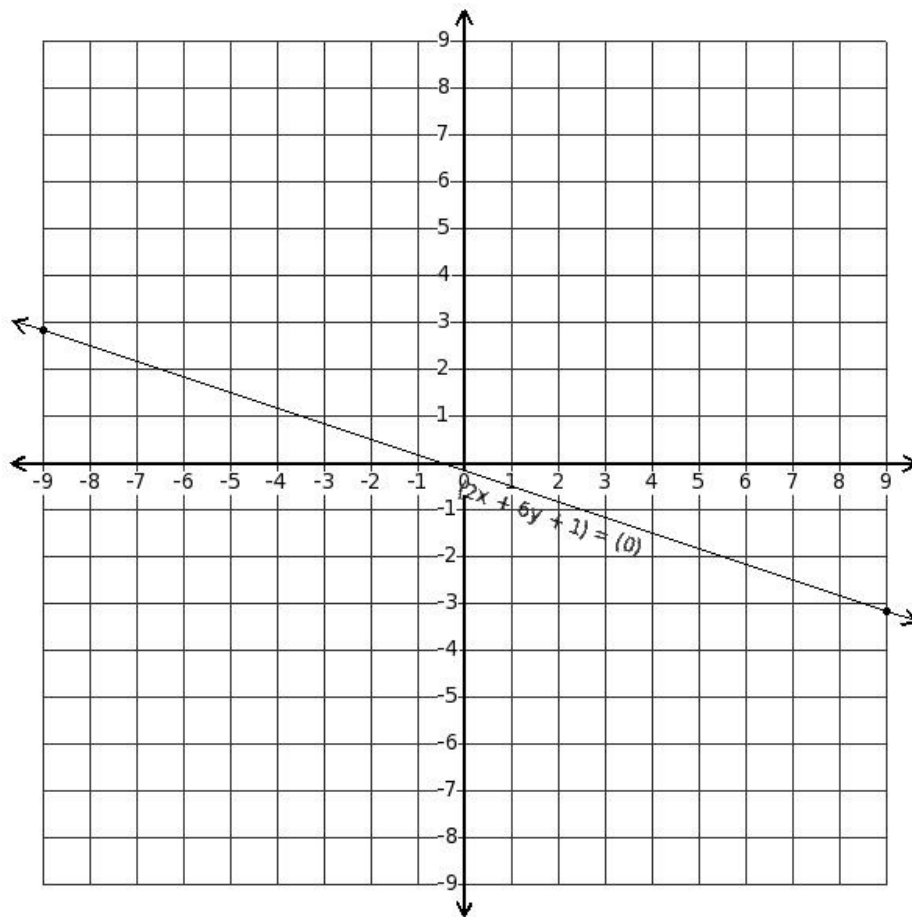
10. Equation of a straight line which is parallel to y-axis (where k is a constant) is

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

11. Write the given equation $y=(-2x+10)$ in $ax+by+c=0$ form

- (i) $(2x+4y-10)=0$ (ii) $(2x+y-10)=0$ (iii) $(3x+y-10)=0$ (iv) $(2x-2y-10)=0$ (v) $(x+y-10)=0$

12. Find the equation parallel to the given equation

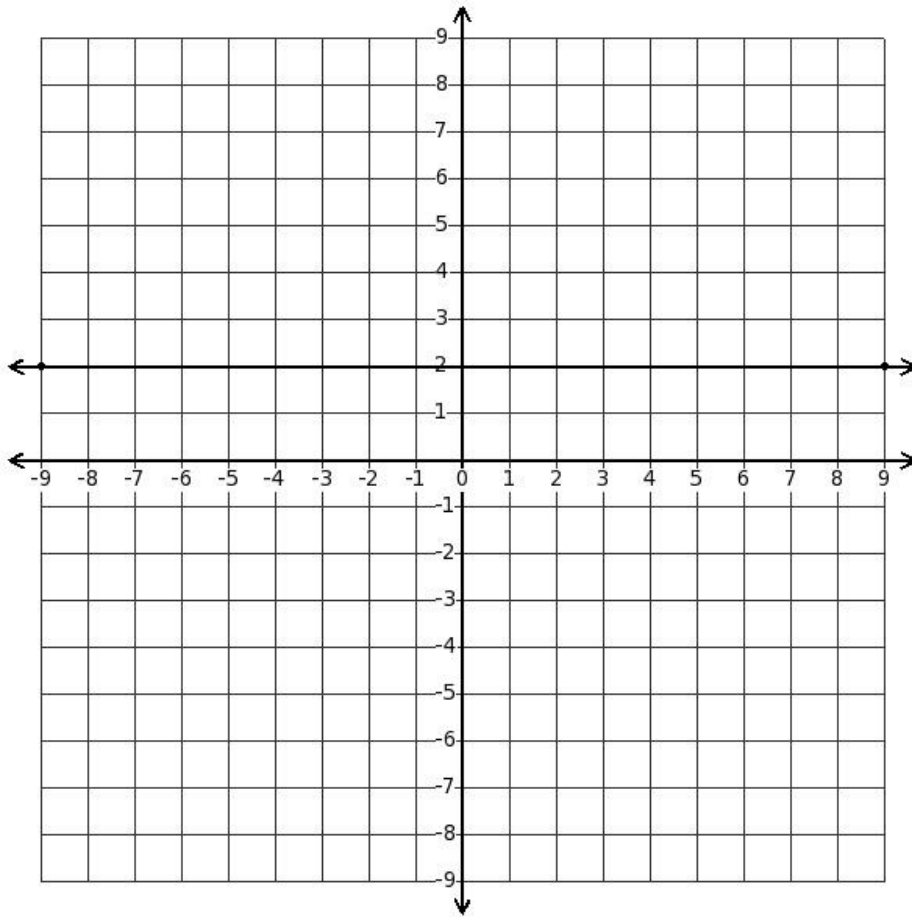


- (i) $(4x + 3y + 50) = 0$ (ii) $(-6x + 2y + 3) = 0$ (iii) $(-2x + 3y + 22) = 0$ (iv) $(2x + 6y - 1) = 0$

13. Find the equation parallel to the given equation $(7x - 2y + 6) = 0$

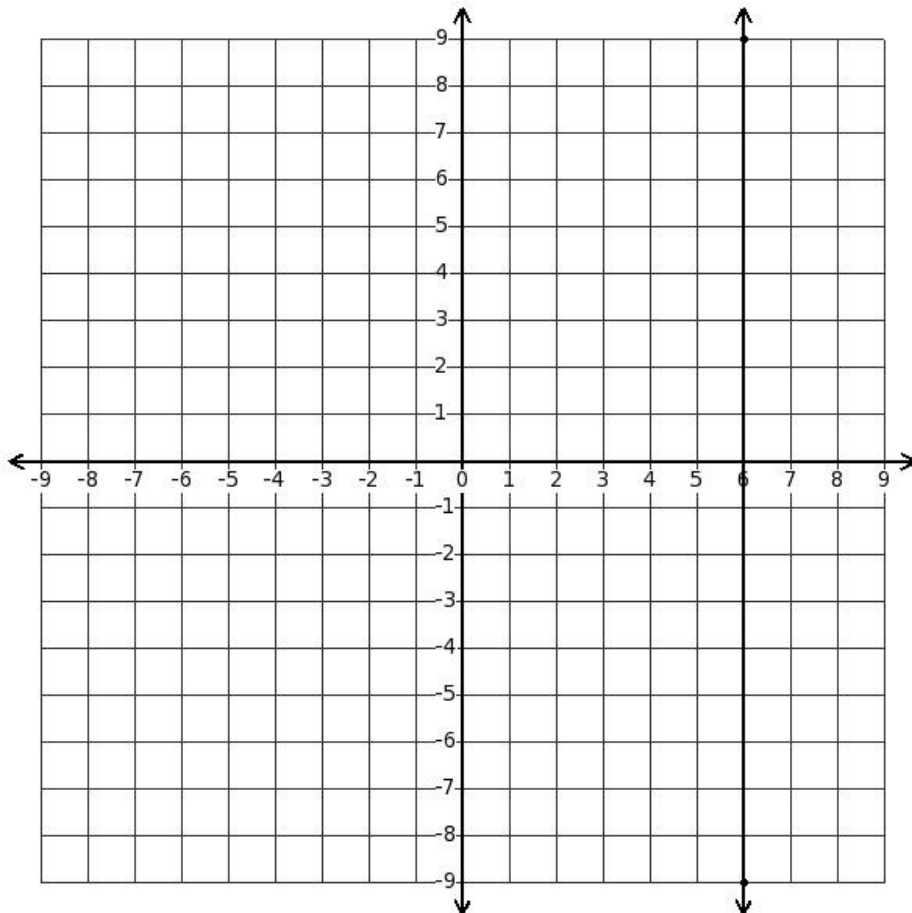
- (i) $(-5x + 7y - 89) = 0$ (ii) $(-9x + 2y - 88) = 0$ (iii) $(7x - 2y + 9) = 0$ (iv) $(2x + 7y - 51) = 0$

14. Find the equation of the displayed line



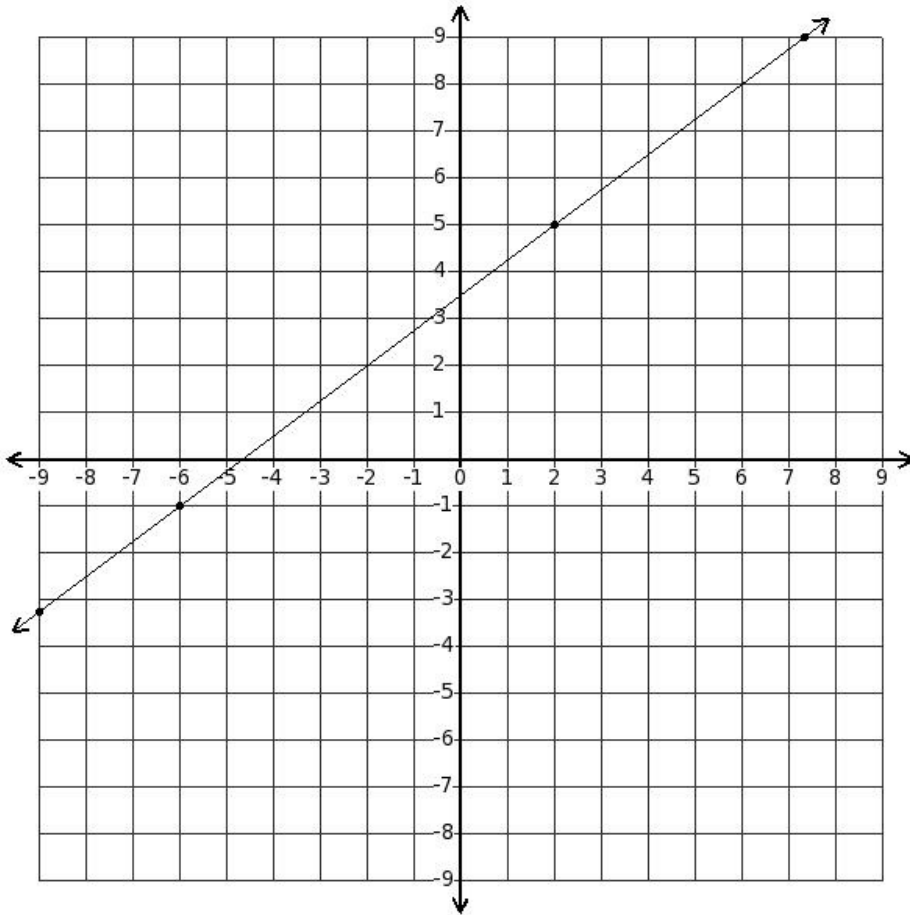
- (i) $y=3$ (ii) $4y=2$ (iii) $y=2$ (iv) $x=2$ (v) $y=1$

15. Find the equation of the displayed line



- (i) $4x=6$ (ii) $x=6$ (iii) $x=7$ (iv) $x=5$ (v) $y=6$

16. Find the equation of the line passing through the points $(-6, -1)$ and $(2, 5)$



- (i) $(5x - 8y + 28) = 0$ (ii) $(-3x + 4y - 18) = 0$ (iii) $(7x - 8y + 28) = 0$ (iv) $(-3x + 4y - 11) = 0$
 (v) $(6x - 8y + 28) = 0$

17. The equation of the x-axis is

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

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

18. Find the equation of a straight line parallel to x-axis and passing through the point $(2, -4)$

- (i) $y = (-1)$ (ii) $x = 5$ (iii) $x = 2$ (iv) $y = (-4)$ (v) $y = (-5)$

19. Find the equation of a straight line parallel to y-axis and passing through the point $(-4, 1)$

- (i) $x = (-1)$ (ii) $y = 1$ (iii) $y = 4$ (iv) $x = (-4)$ (v) $x = (-5)$

20. Find the value of k such that $(10x - y + 8) = 0$ and $(kx + y + 22) = 0$ are parallel to each other

- (i) -10 (ii) -8 (iii) -9 (iv) -13 (v) -11

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

- (i) $(6x + 2y - 22) = 0, (6x + 2y - 50) = 0$ (ii) $(6x + 2y - 22) = 0, (4x + 2y - 36) = 0$
 (iii) $(6x + 2y - 22) = 0, (-4x + 3y + 11) = 0$ (iv) $(6x + 2y - 22) = 0, (-x + 3y - 13) = 0$

22. Find the set of points satisfying the equation $(-17x - 12y + 45) = 0$

(i) $((-2), \frac{79}{12}), ((-1), \frac{31}{6}), (0, \frac{15}{4}), (0, \frac{10}{3}), (2, \frac{11}{12})$ (ii) $((-2), \frac{79}{12}), ((-1), \frac{31}{6}), (0, \frac{15}{4}), (1, \frac{7}{3}), (2, \frac{11}{12})$

(iii) $((-2), \frac{79}{12}), ((-1), \frac{31}{6}), (0, \frac{15}{4}), (1, \frac{7}{3}), (4, \frac{35}{12})$ (iv) $((-2), \frac{79}{12}), ((-1), \frac{31}{6}), ((-2), \frac{7}{4}), (1, \frac{7}{3}), (2, \frac{11}{12})$

(v) $((-2), \frac{79}{12}), ((-1), \frac{31}{6}), (1, \frac{11}{4}), (1, \frac{7}{3}), (2, \frac{11}{12})$

23. Find the set of points satisfying the equation $y = (\frac{9}{2}x + 23)$

(i) $((-2), 14), ((-1), \frac{37}{2}), (0, 23), (0, \frac{57}{2}), (2, 32)$ (ii) $((-2), 14), ((-1), \frac{37}{2}), (0, 23), (1, \frac{55}{2}), (2, 32)$

(iii) $((-2), 14), ((-1), \frac{37}{2}), (1, 22), (1, \frac{55}{2}), (2, 32)$ (iv) $((-2), 14), ((-1), \frac{37}{2}), ((-2), 21), (1, \frac{55}{2}), (2, 32)$

(v) $((-2), 14), ((-1), \frac{37}{2}), (0, 23), (1, \frac{55}{2}), (4, 34)$

24. Find the set of points satisfying the equation $x = (\frac{1}{10}y - \frac{31}{10})$

(i) $((-2), 11), ((-1), 21), ((-2), 29), (1, 41), (2, 51)$ (ii) $((-2), 11), ((-1), 21), (0, 31), (1, 41), (2, 51)$

(iii) $((-2), 11), ((-1), 21), (0, 31), (0, 42), (2, 51)$ (iv) $((-2), 11), ((-1), 21), (0, 31), (1, 41), (4, 53)$

(v) $((-2), 11), ((-1), 21), (1, 30), (1, 41), (2, 51)$

25. Find the set of points satisfying the equation $y = (-\frac{7}{2}x)$

(i) $((-2), 7), ((-1), \frac{7}{2}), (1, (-1)), (1, (-\frac{7}{2})), (2, (-7))$ (ii) $((-2), 7), ((-1), \frac{7}{2}), (0, 0), (0, (-\frac{5}{2})), (2, (-7))$

(iii) $((-2), 7), ((-1), \frac{7}{2}), ((-2), (-2)), (1, (-\frac{7}{2})), (2, (-7))$ (iv) $((-2), 7), ((-1), \frac{7}{2}), (0, 0), (1, (-\frac{7}{2})), (4, (-5))$

(v) $((-2), 7), ((-1), \frac{7}{2}), (0, 0), (1, (-\frac{7}{2})), (2, (-7))$

26. Find the set of points satisfying the equation $(4x + 3y - 2) = 0$

(i) $((-2), \frac{10}{3}), ((-1), 2), ((-2), (-\frac{4}{3})), (1, (-\frac{2}{3})), (2, (-2))$ (ii) $((-2), \frac{10}{3}), ((-1), 2), (0, \frac{2}{3}), (1, (-\frac{2}{3})), (4, 0)$

(iii) $((-2), \frac{10}{3}), ((-1), 2), (0, \frac{2}{3}), (1, (-\frac{2}{3})), (2, (-2))$ (iv) $((-2), \frac{10}{3}), ((-1), 2), (1, (-\frac{1}{3})), (1, (-\frac{2}{3})), (2, (-2))$

(v) $((-2), \frac{10}{3}), ((-1), 2), (0, \frac{2}{3}), (0, \frac{1}{3}), (2, (-2))$

27. Find the set of points satisfying the equation $y=2$

- (i) $((-2),2),((-1),2),(0,2),(1,2),(4,4)$ (ii) $((-2),2),((-1),2),((-2),0),(1,2),(2,2)$
(iii) $((-2),2),((-1),2),(0,2),(0,3),(2,2)$ (iv) $((-2),2),((-1),2),(1,1),(1,2),(2,2)$
(v) $((-2),2),((-1),2),(0,2),(1,2),(2,2)$

28. Find the set of points satisfying the equation $x=-2$

- (i) $((-2),(-2)),((-2),(-1)),((-4),(-2)),((-2),1),((-2),2)$
(ii) $((-2),(-2)),((-2),(-1)),((-1),(-1)),((-2),1),((-2),2)$
(iii) $((-2),(-2)),((-2),(-1)),((-2),0),((-2),1),(0,4)$
(iv) $((-2),(-2)),((-2),(-1)),((-2),0),((-3),2),((-2),2)$
(v) $((-2),(-2)),((-2),(-1)),((-2),0),((-2),1),((-2),2)$

29. Which of the following equations satisfy the given points $((-2), \frac{30}{11}),((-1), \frac{23}{11}), (0, \frac{16}{11}), (1, \frac{9}{11}), (2, \frac{2}{11})$?

- (i) $(3x+6y-2)=0$ (ii) $x=(\frac{7}{11}y+\frac{133}{11})$ (iii) $y=(-8)$ (iv) $y=(-\frac{7}{11}x-\frac{39}{11})$ (v) $(-7x-11y+16)=0$

Which of the following equations satisfy the given points

30. $((-2),(-4)),((-1),(-\frac{9}{2})), (0,(-5)), (1,(-\frac{11}{2})), (2,(-6))$?

- (i) $y=(-\frac{1}{2}x-5)$ (ii) $y=(-3)$ (iii) $(-5x-10y-20)=0$ (iv) $x=(-4)$ (v) $(5x+8y-4)=0$

31. Which of the following equations satisfy the given points $((-2), \frac{13}{18}),((-1), \frac{4}{9}), (0, \frac{1}{6}), (1,(-\frac{1}{9})), (2,(-\frac{7}{18}))$?

- (i) $(5x+18y-3)=0$ (ii) $x=(3y-17)$ (iii) $x=7$ (iv) $(-9x-3y+15)=0$ (v) $y=8$

32. Which of the following equations satisfy the given points $((-2),4),((-1),4), (0,4), (1,4), (2,4)$?

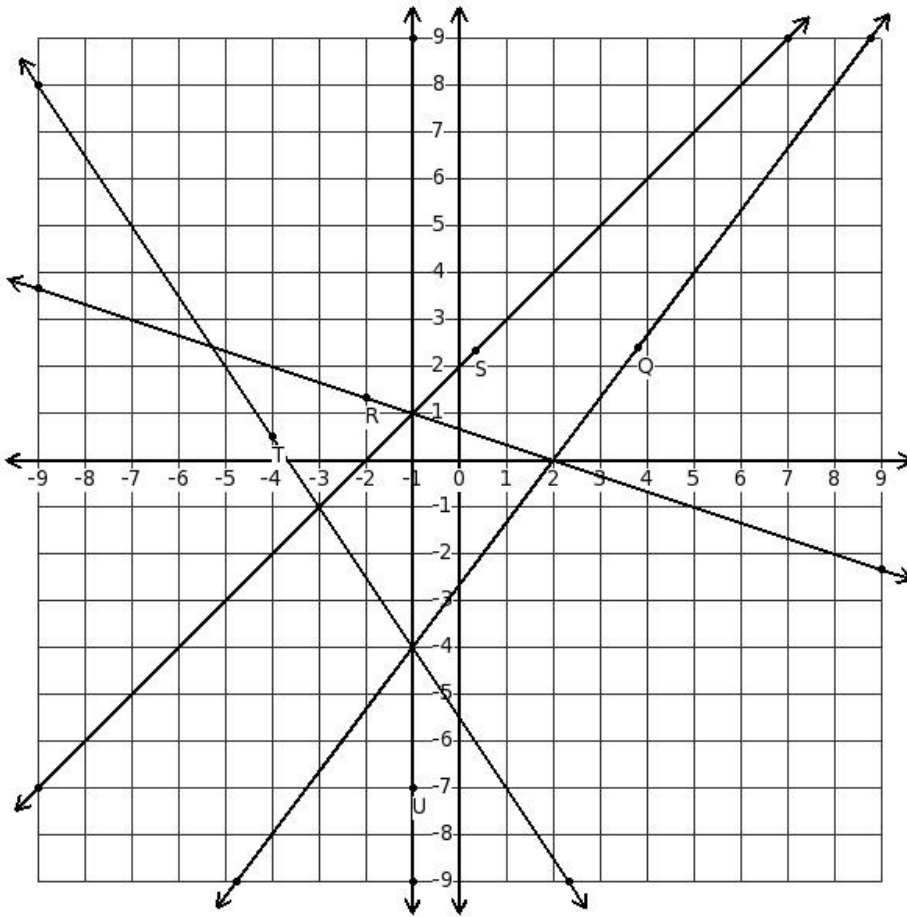
- (i) $x=(-7)$ (ii) $x=(\frac{1}{2}y-9)$ (iii) $(-6x-12y-18)=0$ (iv) $y=4$ (v) $y=(-\frac{1}{2}x+\frac{1}{2})$

Which of the following equations satisfy the given points

33. $((-7),(-2)),((-7),(-1)),((-7),0),((-7),1),((-7),2)$?

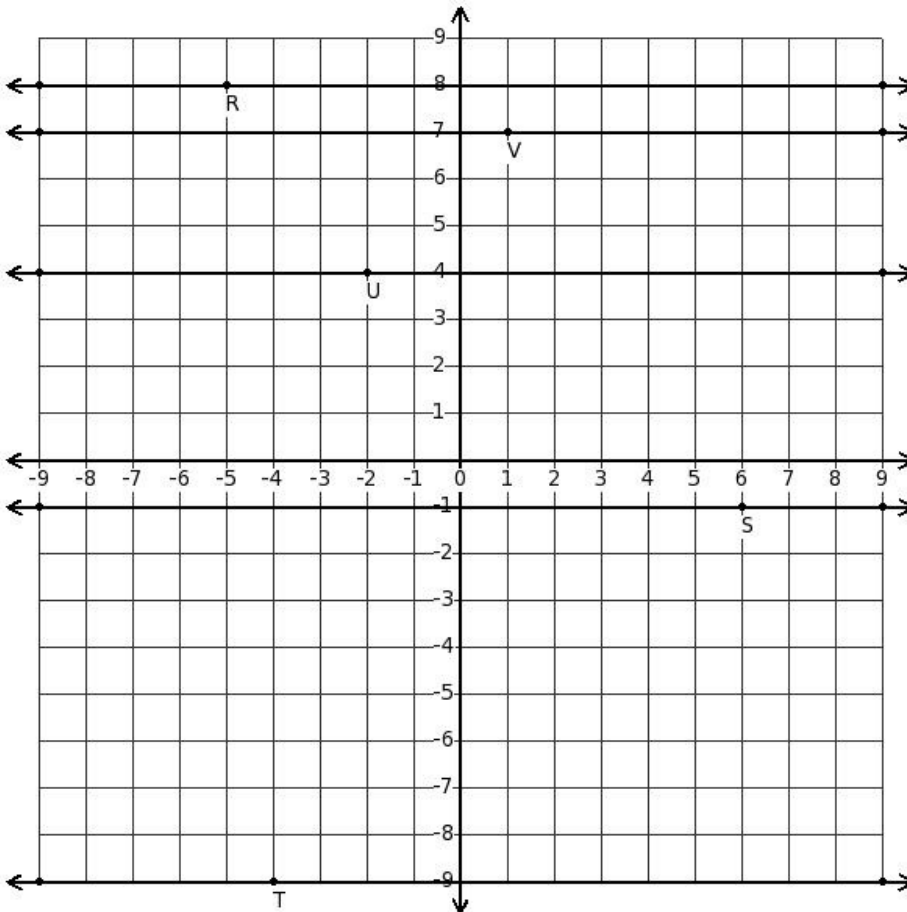
- (i) $x=(\frac{1}{2}y-\frac{19}{2})$ (ii) $y=5$ (iii) $x=(-7)$ (iv) $(5x+4y-3)=0$ (v) $y=(-\frac{1}{2}x+\frac{3}{2})$

34. Which of the displayed lines represent the equation $(4x - 3y - 8) = 0$?



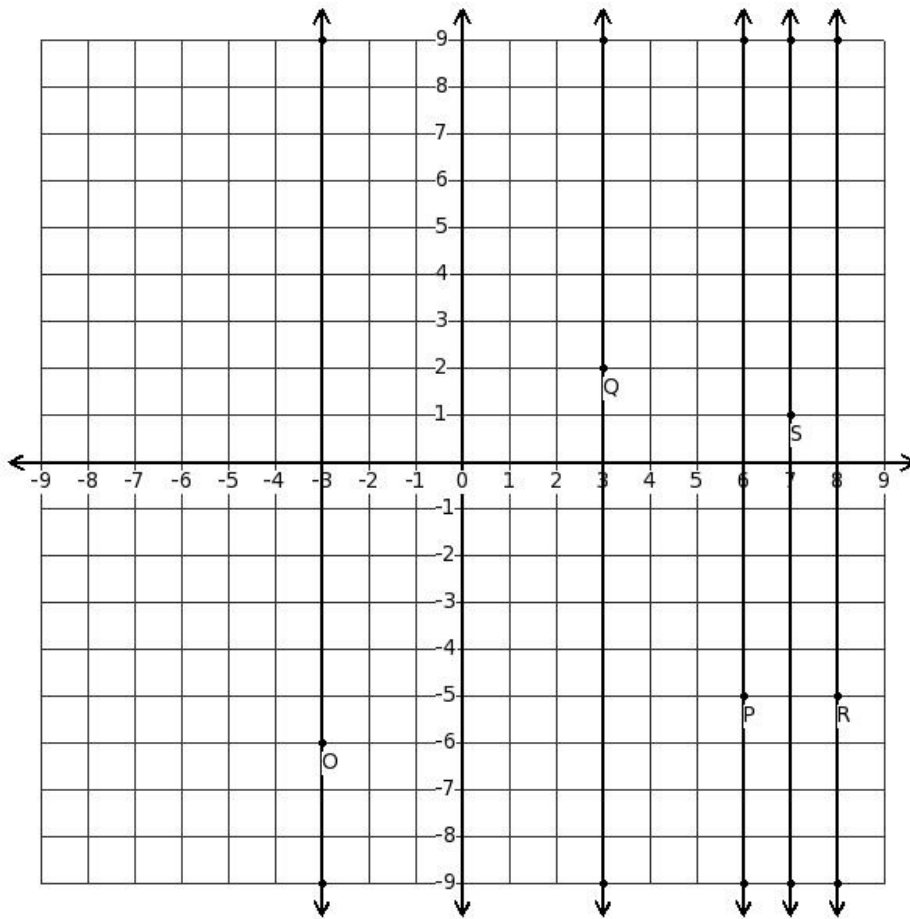
- (i) line with point R (ii) line with point S (iii) line with point Q (iv) line with point T (v) line with point U

35. Which of the displayed lines represent the equation $y = 8$?



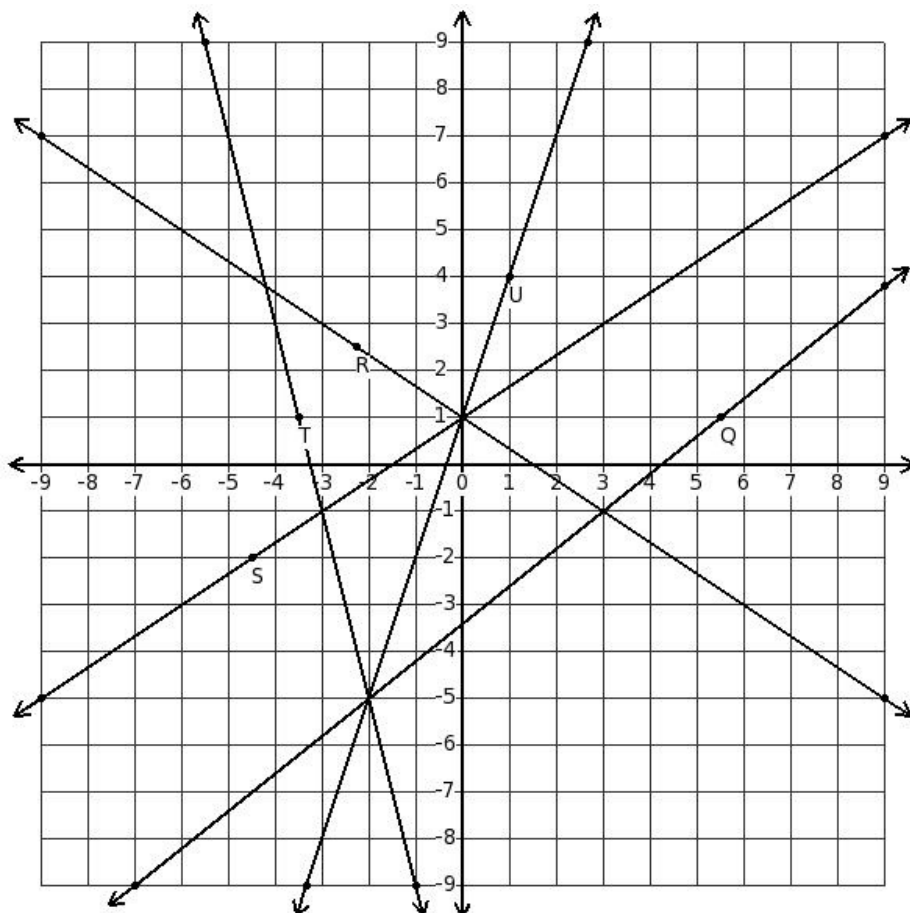
- (i) line with point V (ii) line with point S (iii) line with point R (iv) line with point T (v) line with point U

36. Which of the displayed lines represent the equation $x = (-3)$



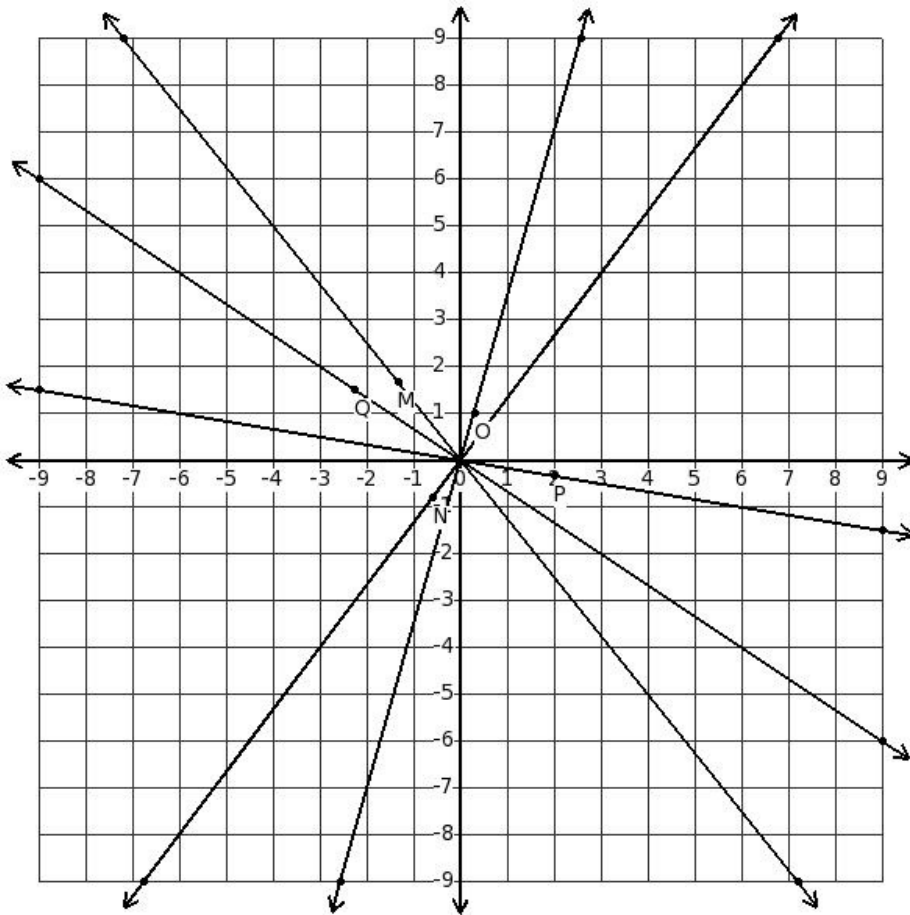
(i) line with point S (ii) line with point Q (iii) line with point P (iv) line with point R (v) line with point O

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



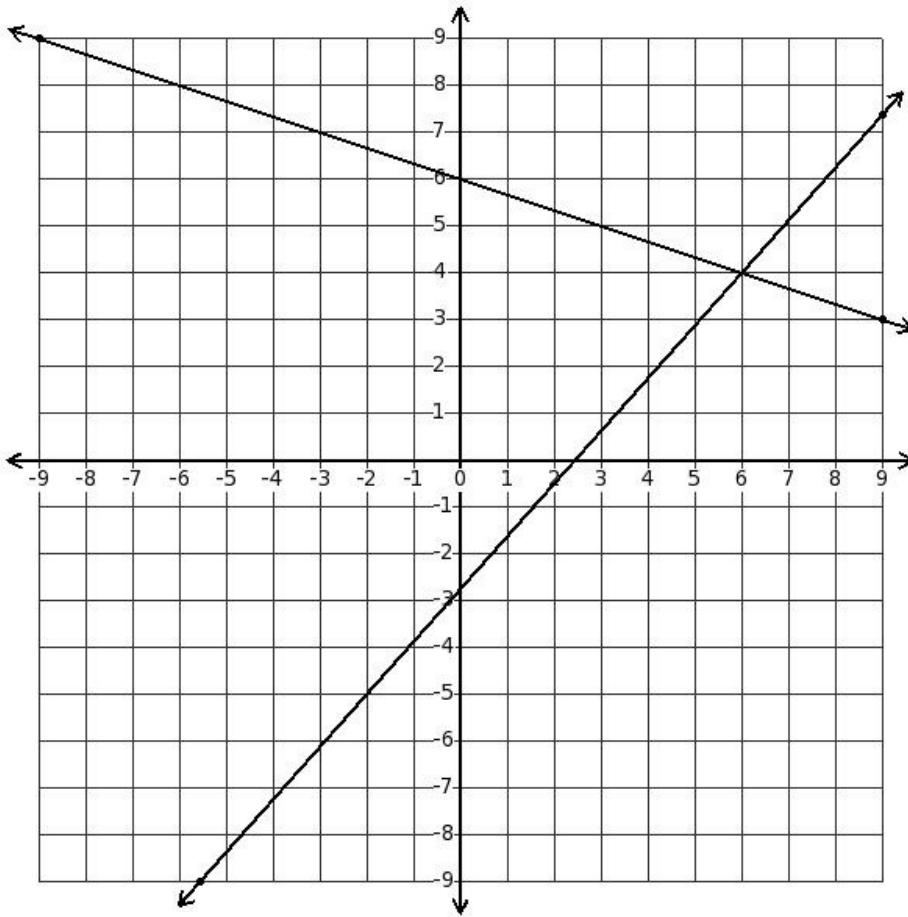
(i) line with point U (ii) line with point Q (iii) line with point R (iv) line with point T (v) line with point S

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



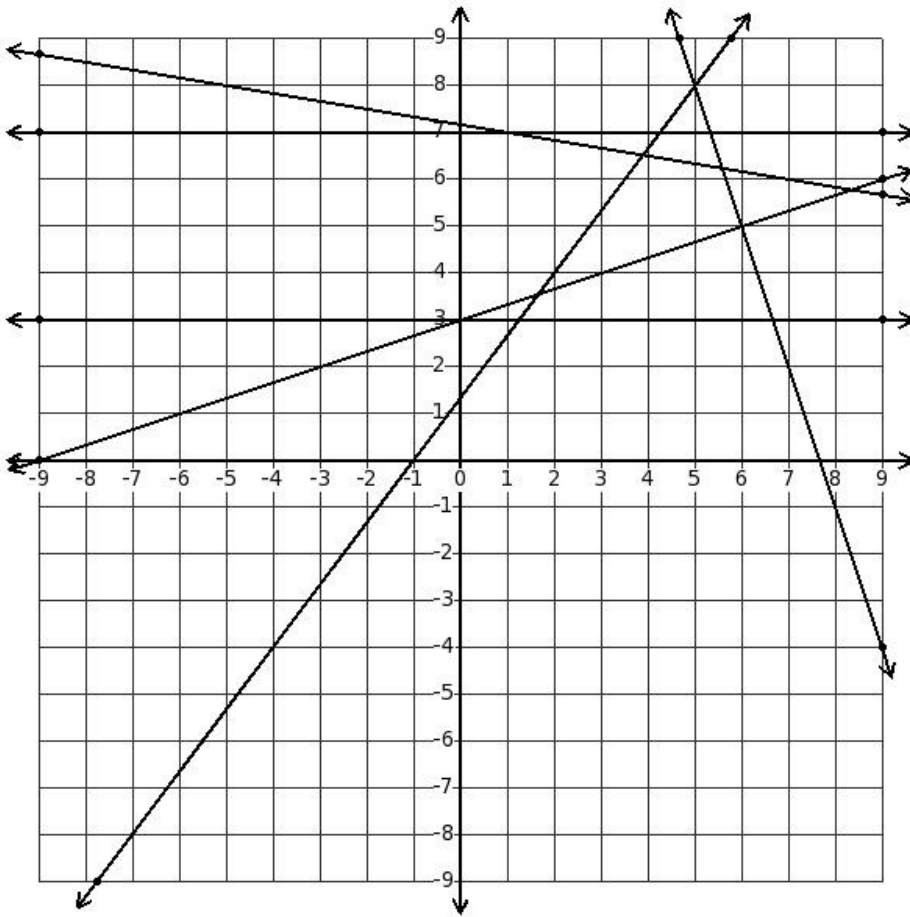
- (i) line with point O (ii) line with point M (iii) line with point Q (iv) line with point P (v) line with point N

39. Solve $(9x - 8y - 22) = 0$
 $(x + 3y - 18) = 0$



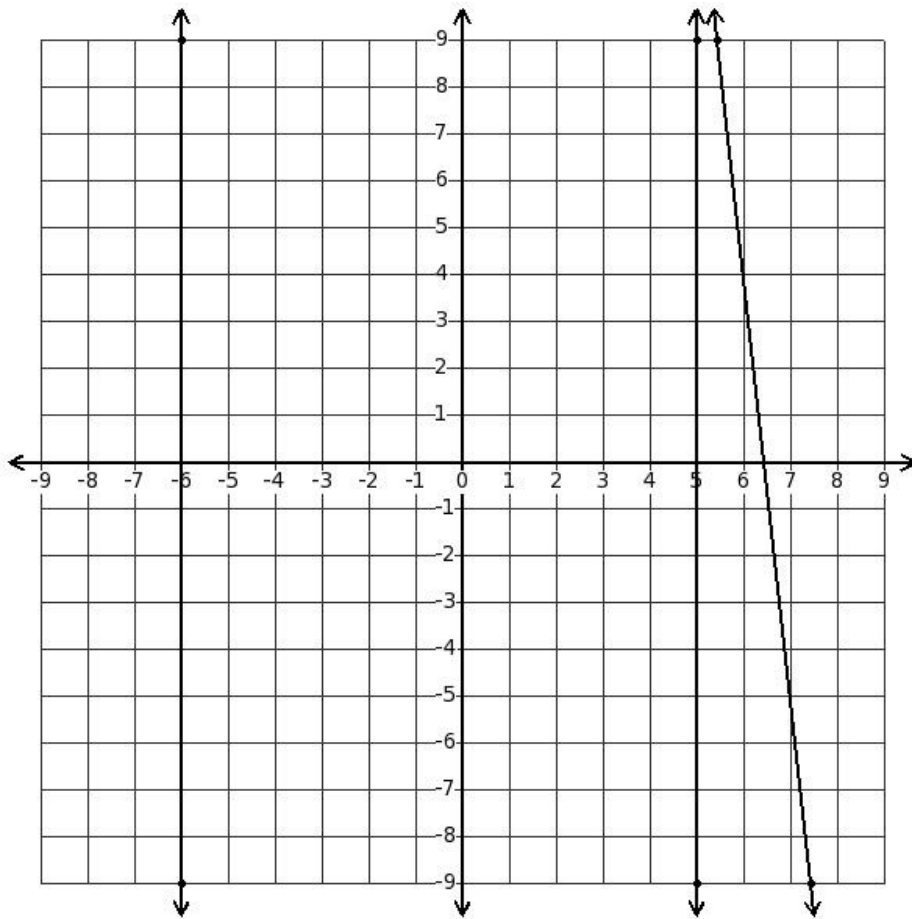
- (i) (8,6) (ii) (6,4) (iii) (5,5) (iv) (4,2) (v) (7,3)

40. Solve $(4y-12) = 0$
 $(2x-6y+18)=0$



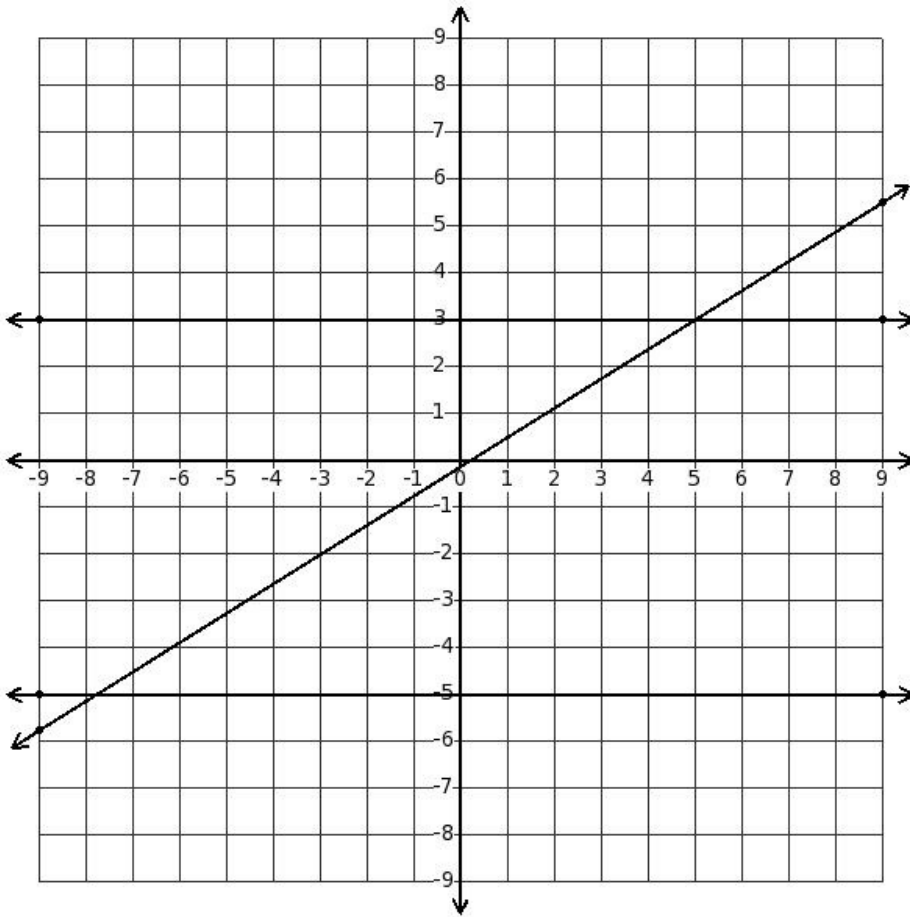
- (i) (0,3) (ii) ((-2),1) (iii) (1,7) (iv) (5,8) (v) (2,5)

41. Solve $(x+6)=0$
 $(x-5)=0$



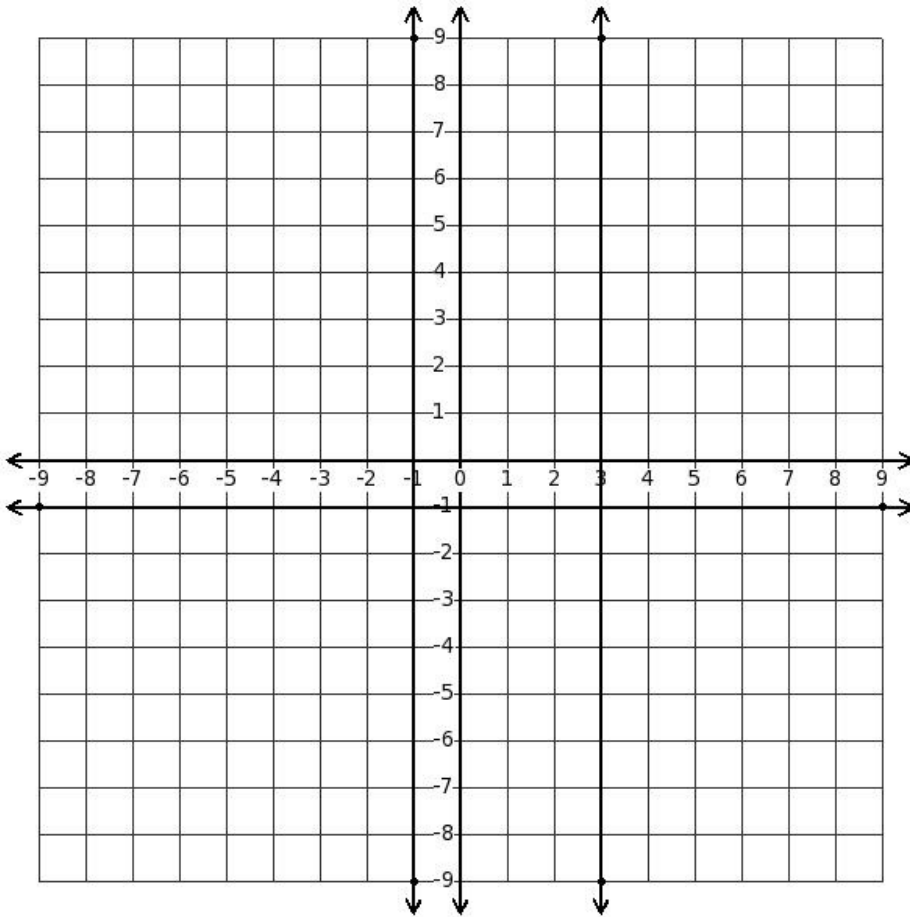
- (i) $(6,4)$ (ii) $(5,-7)$ (iii) No solution (iv) Infinite solutions (v) $(7,-5)$

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



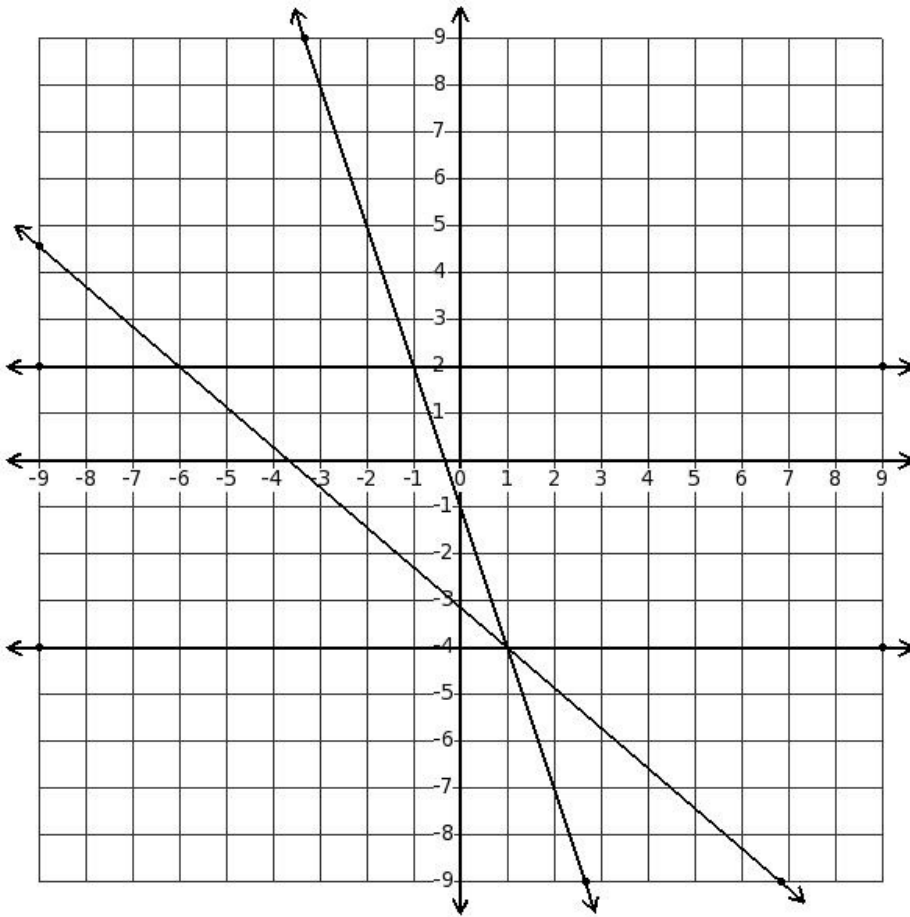
(i) $(-3, -2)$ (ii) $(5, 3)$ (iii) No solution (iv) $(3, 1)$ (v) Infinite solutions

43. Solve $(7x-21)=0$
 $(x+1) = 0$



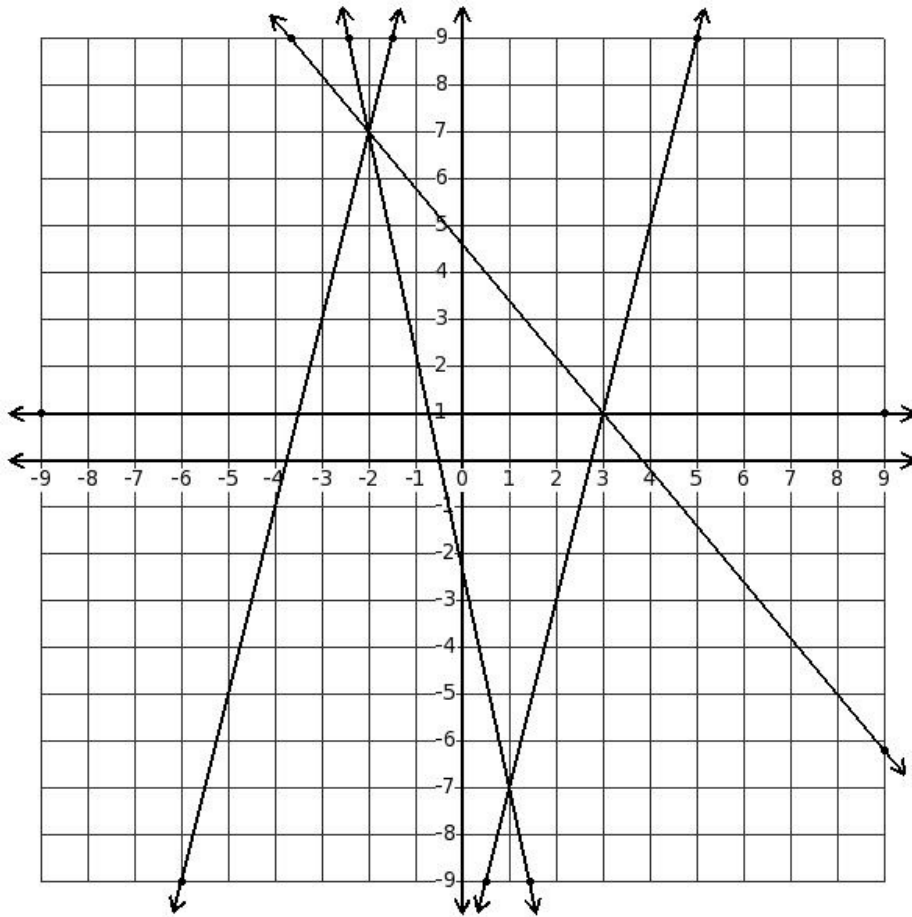
- (i) Infinite solutions (ii) $(3, (-1))$ (iii) $(1, (-3))$ (iv) $((-1), (-1))$ (v) No solution

44. Solve $(-5y+10) = 0$
 $(-15y+30)=0$



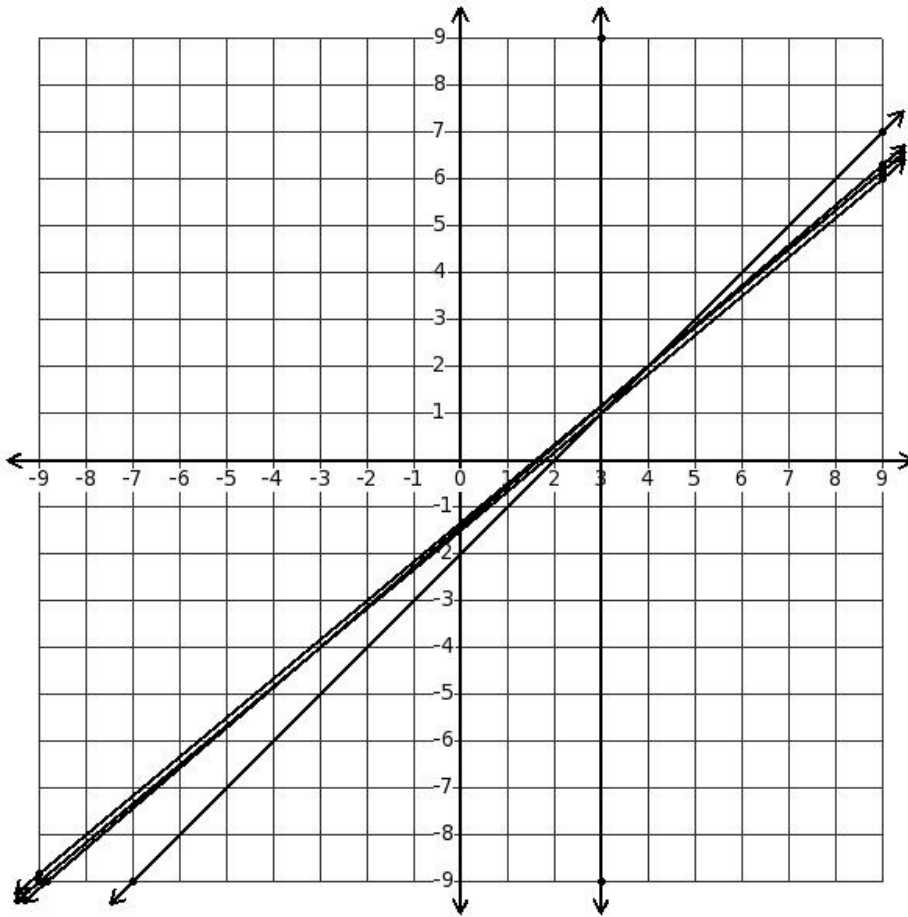
- (i) $(-6, 2)$ (ii) $(-1, 2)$ (iii) Infinite solutions (iv) $(1, -4)$ (v) No solution

45. Solve $(-8x+2y+22)=0$
 $(y-1) = 0$



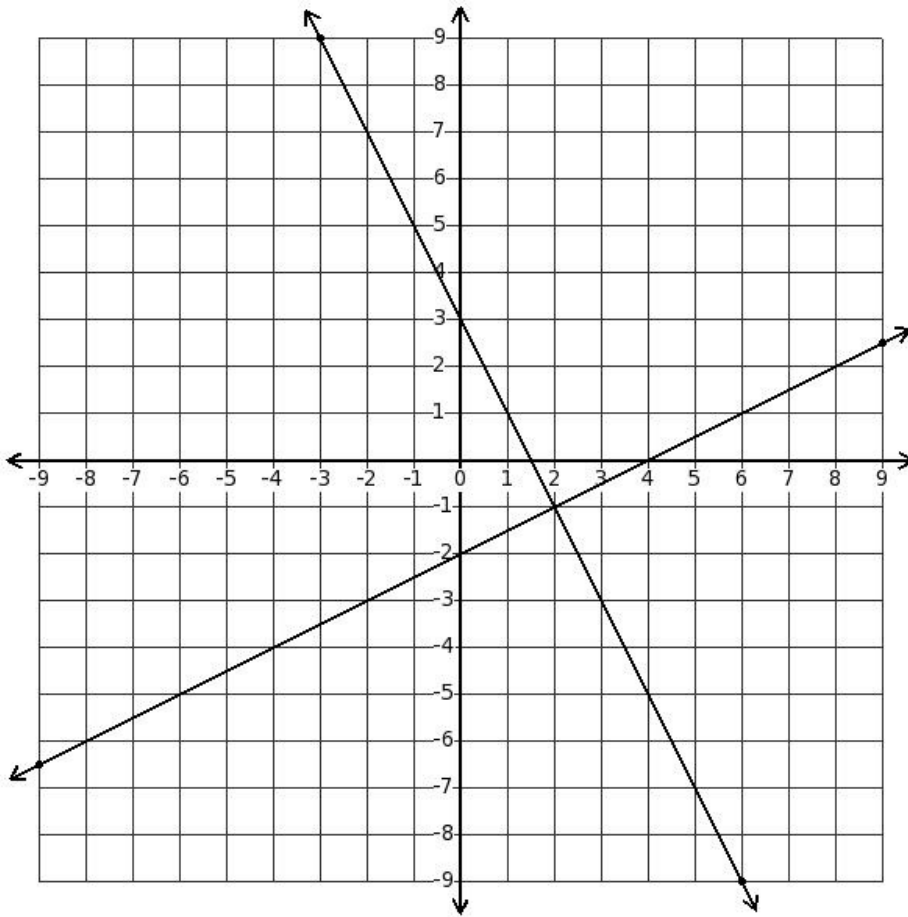
- (i) (3,1) (ii) ((-2),7) (iii) (3,0) (iv) (1,(-7)) (v) (0,1)

46. Solve $(-5x+6y+9)=0$
 $(x-3) = 0$



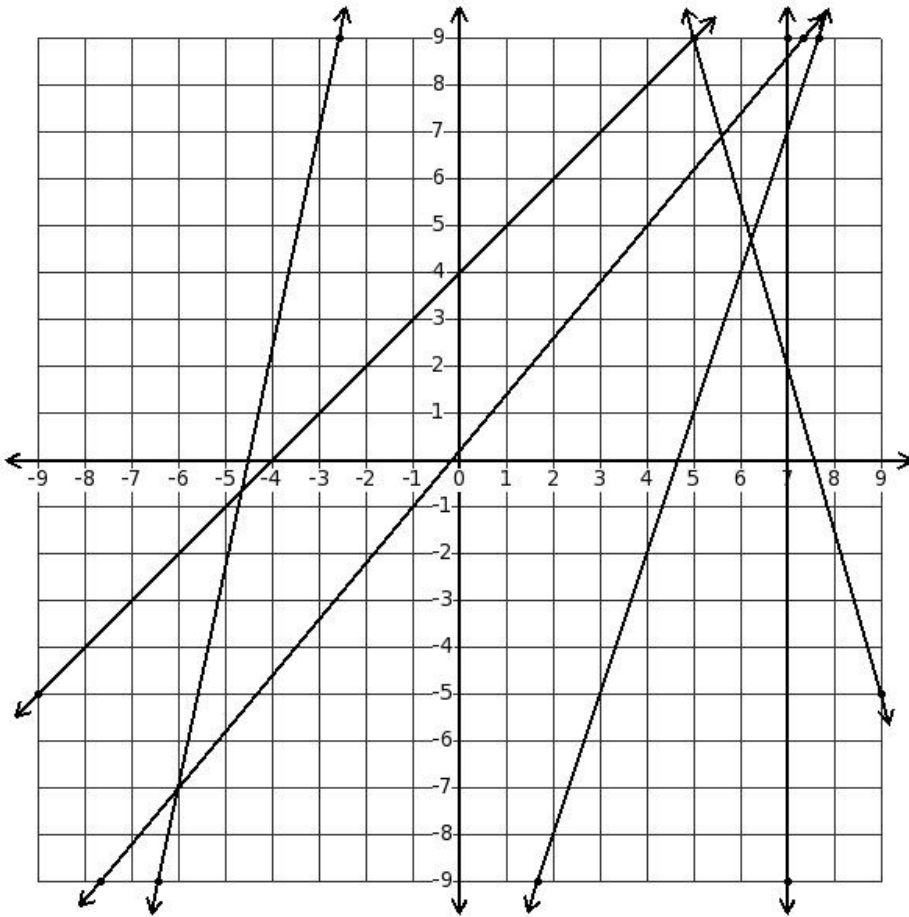
- (i) $(-3, -4)$ (ii) $(4, 2)$ (iii) $(0, 1)$ (iv) $(3, 0)$ (v) $(3, 1)$

47. Solve $(x-2y-4) = 0$
 $(-4x-2y+6)=0$



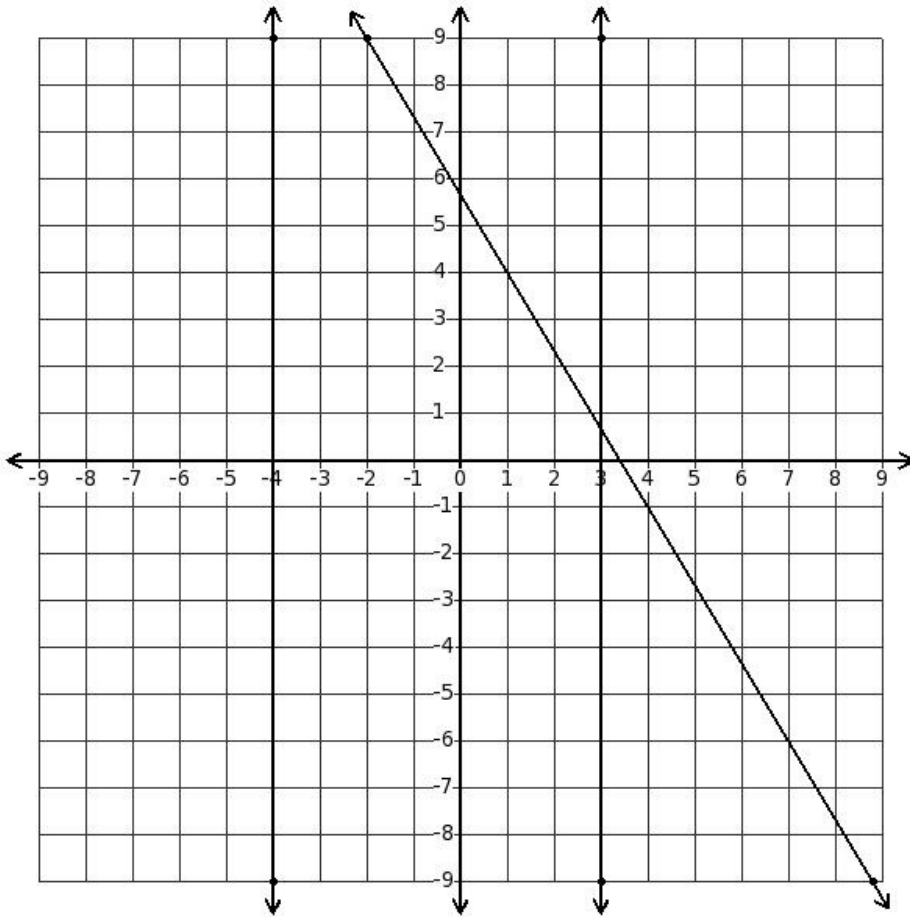
- (i) $(2, (-1))$ (ii) $(4, 1)$ (iii) $(0, (-3))$ (iv) $(1, 0)$ (v) $(3, (-2))$

48. Solve $(-14x+3y-63)=0$
 $(12x-10y+2) = 0$



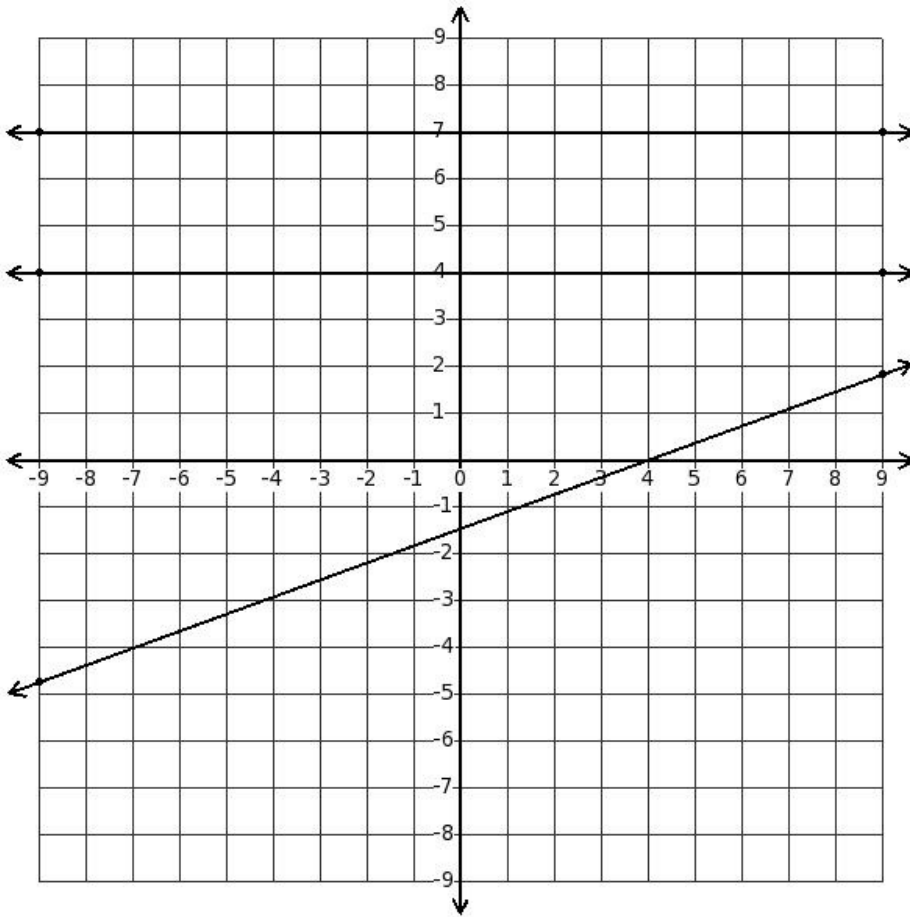
- (i) $(-6, -7)$ (ii) $(-4, -5)$ (iii) $(5, 9)$ (iv) $(7, 7)$ (v) $(-8, -9)$

49. Solve $(x+4)=0$
 $(x-3)=0$



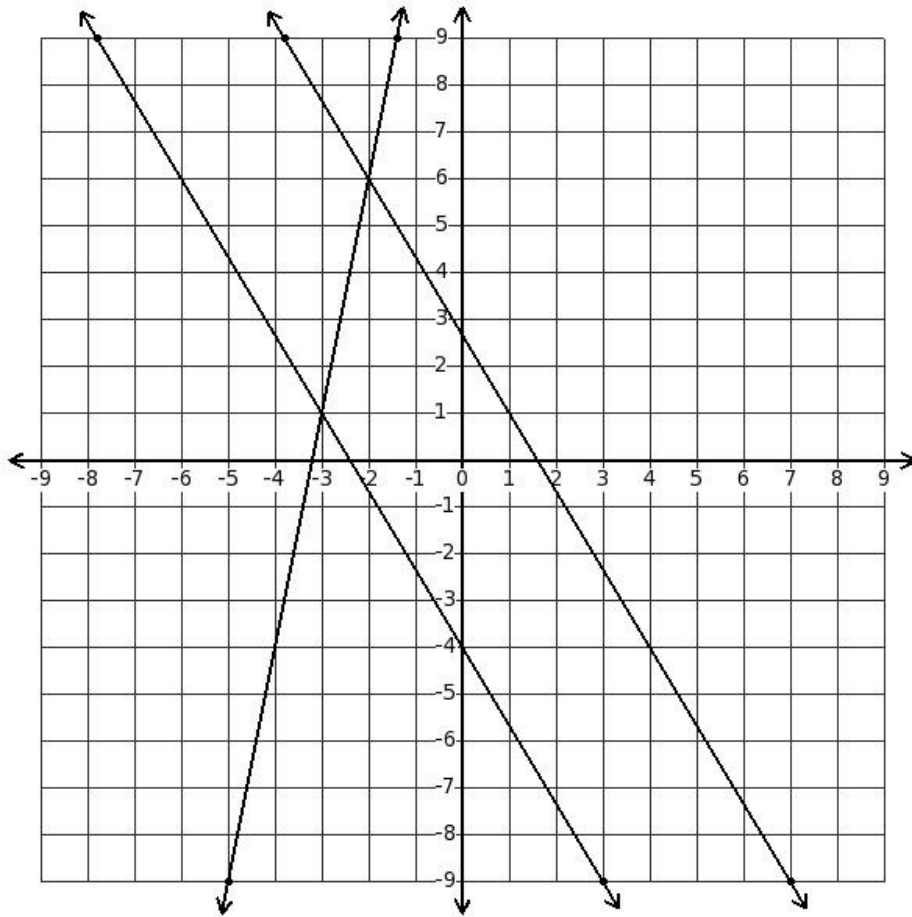
(i) No solution (ii) $(7, -6)$ (iii) $(1, 4)$ (iv) $(-1, 2)$ (v) Infinite solutions

50. Solve $(y-4)=0$
 $(y-7)=0$



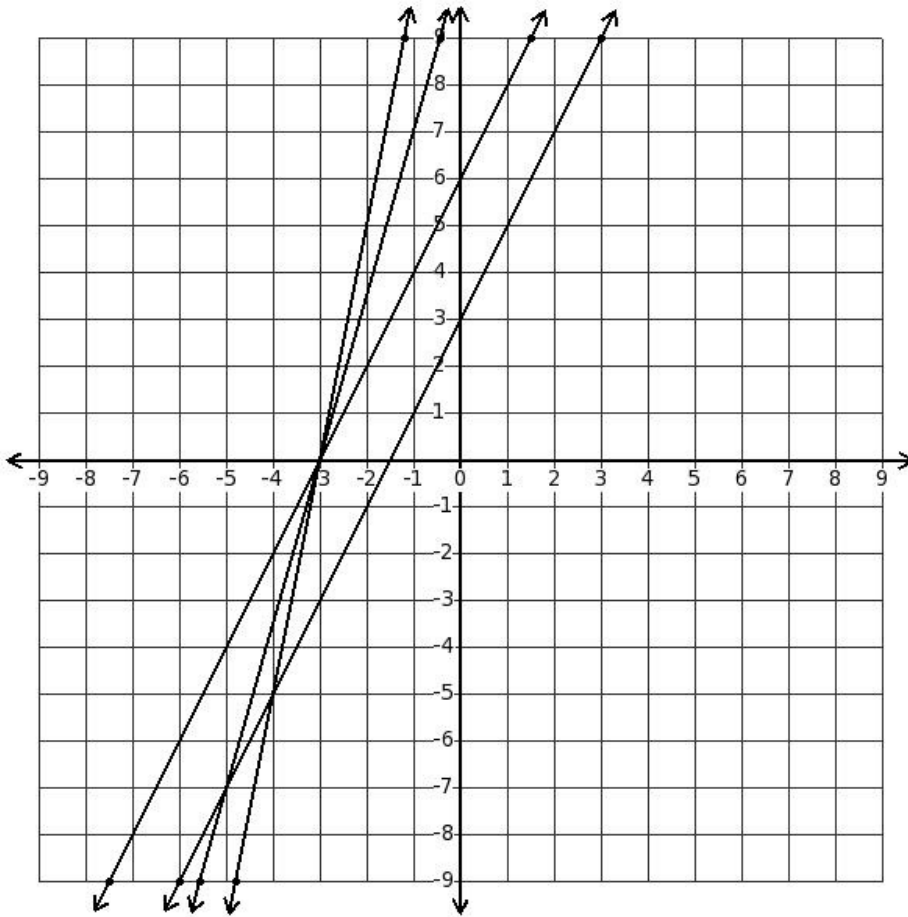
(i) $(4,0)$ (ii) $((-7),(-4))$ (iii) No solution (iv) Infinite solutions (v) $(2,(-2))$

51. Solve $(-5x-3y-12)=0$
 $(5x+3y-8) = 0$



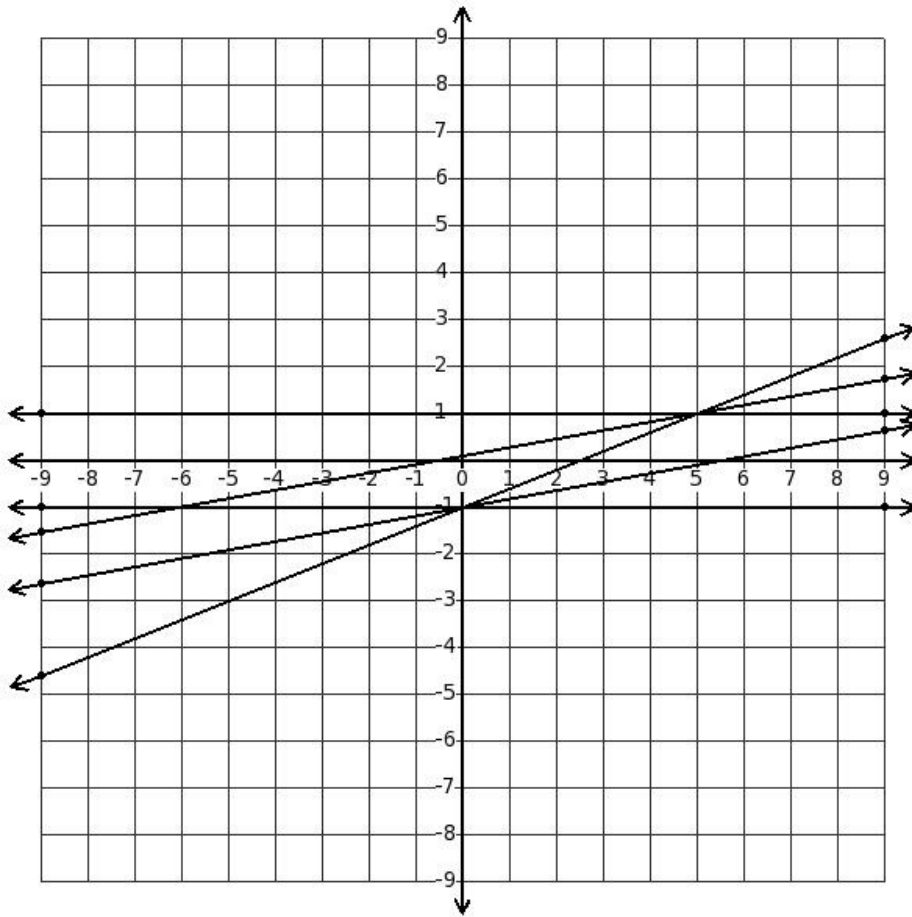
- (i) $(-5, -1)$ (ii) No solution (iii) $(-2, 6)$ (iv) $(-3, 1)$ (v) Infinite solutions

52. Solve $(2x - y + 3) = 0$
 $(6x - 3y + 9) = 0$



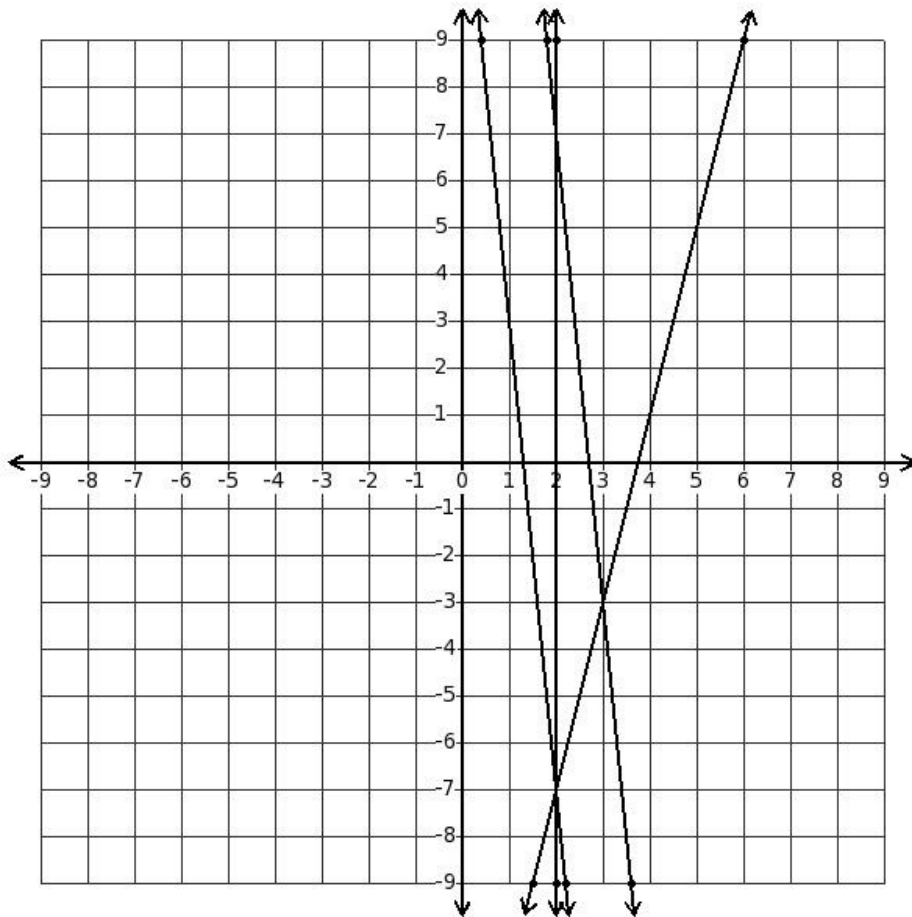
- (i) Infinite solutions (ii) $((-4), (-5))$ (iii) No solution (iv) $((-3), 0)$ (v) $((-5), (-7))$

53. Solve $(-2x+11y-1)=0$
 $(y-1) = 0$



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

54. Solve $(-10x - y + 27) = 0$
 $(x - 2) = 0$



- (i) (0,7) (ii) (2,7) (iii) (2,(-7)) (iv) (3,(-3)) (v) (2,0)

Assignment Key

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 1) (ii) | 2) (iii) | 3) (ii) | 4) (v) | 5) (i) | 6) (i) |
| 7) (iii) | 8) (ii) | 9) (iii) | 10) (i) | 11) (ii) | 12) (iv) |
| 13) (iii) | 14) (iii) | 15) (ii) | 16) (v) | 17) (i) | 18) (iv) |
| 19) (iv) | 20) (i) | 21) (i) | 22) (ii) | 23) (ii) | 24) (ii) |
| 25) (v) | 26) (iii) | 27) (v) | 28) (v) | 29) (v) | 30) (i) |
| 31) (i) | 32) (iv) | 33) (iii) | 34) (iii) | 35) (iii) | 36) (v) |
| 37) (ii) | 38) (ii) | 39) (ii) | 40) (i) | 41) (iii) | 42) (iii) |
| 43) (v) | 44) (iii) | 45) (i) | 46) (v) | 47) (i) | 48) (i) |
| 49) (i) | 50) (iii) | 51) (ii) | 52) (i) | 53) (iv) | 54) (ii) |