



1. The equation of the line passing through the origin and having a slope $m \neq 0$ is
(i) $y=0$ (ii) $y=mx$ (iii) $x=0$ (iv) $x=my+c$ (v) $y=mx+c$
2. The equation of the line with slope $m \neq 0$ and y-intercept $c \neq 0$ is
(i) $x=0$ (ii) $y=0$ (iii) $y=mx$ (iv) $y=mx+c$ (v) $x=my+c$
3. Find the y-intercept of the line $(-2x+10y-70)=0$
(i) 7 (ii) 8 (iii) 6 (iv) 5 (v) 10
4. Any line parallel to x-axis is
(i) an oblique line (ii) a horizontal line (iii) a vertical line (iv) a curved line
5. Any line parallel to y-axis is
(i) a vertical line (ii) a curved line (iii) a horizontal line (iv) an oblique line
6. A line which is neither parallel to x-axis nor y-axis is
(i) a curved line (ii) an oblique line (iii) a horizontal line (iv) a vertical line
7. Which of the following are true?
a) The abscissa of every point on y-axis is zero
b) The ordinate of every point on y-axis is zero
c) The ordinate of every point on x-axis is zero
d) The abscissa of every point on x-axis is zero

(i) {b,a} (ii) {a,c} (iii) {b,c,a} (iv) {d,c} (v) {b,d,a}
8. Equation of the line passing through a given point (x_1, y_1) and having slope m is
a) $(y - y_1) = m(x - x_1)$
b) $(y - x_1) = m(x - y_1)$
c) None of the above
d) $(y - y_1)m = (x - x_1)$

(i) {b,a} (ii) {a} (iii) {d,b,a} (iv) {c,a}
9. The coordinates of the origin are
(i) (1,0) (ii) (1,1) (iii) (6,0) (iv) (0,7) (v) (0,0)
10. The point of intersection of x-axis and y-axis
(i) (1,1) (ii) (4,0) (iii) (0,0) (iv) (0,7) (v) (1,0)
11. The line $(9x+7y+4)=0$ bisects which of the following pairs of points?
(i) $((-1),(-4)),(6,1)$ (ii) $((-3),(-6)),(6,1)$ (iii) $((-3),(-6)),(5,2)$ (iv) $((-5),(-8)),(6,1)$
(v) $((-2),(-7)),(6,1)$

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

- (i) $(5x-2y-9)=0$ (ii) $(4x-7y)=0$ (iii) $(6x-6y-18)=0$ (iv) $(-10x-3y-31)=0$
(v) $(-x+11y-37)=0$

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

- (i) $(-x+10y+29)=0$ (ii) $(8x-4y)=0$ (iii) $(-3x+y)=0$ (iv) $(7x+6y)=0$ (v) $(-x-4y)=0$

14. Find the set of points satisfying the equation $(-16x+9y-15)=0$

- (i) $((-2),(-\frac{17}{9})),((-1),(-\frac{1}{9})),(0,\frac{5}{3}),(1,\frac{31}{9}),(4,\frac{65}{9})$ (ii) $((-2),(-\frac{17}{9})),((-1),(-\frac{1}{9})),(0,\frac{5}{3}),(0,\frac{40}{9}),(2,\frac{47}{9})$
(iii) $((-2),(-\frac{17}{9})),((-1),(-\frac{1}{9})),((-2),(-\frac{1}{3})),(1,\frac{31}{9}),(2,\frac{47}{9})$
(iv) $((-2),(-\frac{17}{9})),((-1),(-\frac{1}{9})),(0,\frac{5}{3}),(1,\frac{31}{9}),(2,\frac{47}{9})$
(v) $((-2),(-\frac{17}{9})),((-1),(-\frac{1}{9})),(1,\frac{2}{3}),(1,\frac{31}{9}),(2,\frac{47}{9})$

15. Find the set of points satisfying the equation $y=(-15x+126)$

- (i) $((-2),156),((-1),141),(0,126),(1,111),(4,98)$ (ii) $((-2),156),((-1),141),(0,126),(1,111),(2,96)$
(iii) $((-2),156),((-1),141),(0,126),(0,112),(2,96)$ (iv) $((-2),156),((-1),141),((-2),124),(1,111),(2,96)$
(v) $((-2),156),((-1),141),(1,125),(1,111),(2,96)$

16. Find the set of points satisfying the equation $x=(\frac{1}{2}y+\frac{7}{2})$

- (i) $((-2),(-11)),((-1),(-9)),(0,(-7)),(1,(-5)),(2,(-3))$
(ii) $((-2),(-11)),((-1),(-9)),((-2),(-9)),(1,(-5)),(2,(-3))$
(iii) $((-2),(-11)),((-1),(-9)),(1,(-8)),(1,(-5)),(2,(-3))$
(iv) $((-2),(-11)),((-1),(-9)),(0,(-7)),(0,(-4)),(2,(-3))$
(v) $((-2),(-11)),((-1),(-9)),(0,(-7)),(1,(-5)),(4,(-1))$

17. Find the set of points satisfying the equation $y=(-\frac{3}{8}x)$

- (i) $((-2),\frac{3}{4}),((-1),\frac{3}{8}),(1,(-1)),(1,(-\frac{3}{8})),(2,(-\frac{3}{4}))$
(ii) $((-2),\frac{3}{4}),((-1),\frac{3}{8}),((-2),(-2)),(1,(-\frac{3}{8})),(2,(-\frac{3}{4}))$ (iii) $((-2),\frac{3}{4}),((-1),\frac{3}{8}),(0,0),(1,(-\frac{3}{8})),(4,\frac{5}{4})$
(iv) $((-2),\frac{3}{4}),((-1),\frac{3}{8}),(0,0),(0,\frac{5}{8}),(2,(-\frac{3}{4}))$ (v) $((-2),\frac{3}{4}),((-1),\frac{3}{8}),(0,0),(1,(-\frac{3}{8})),(2,(-\frac{3}{4}))$

18. Find the set of points satisfying the equation $(7x+18y-6)=0$

(i) $((-2), \frac{10}{9}), ((-1), \frac{13}{18}), (0, \frac{1}{3}), (0, \frac{17}{18}), (2, (-\frac{4}{9}))$

(ii) $((-2), \frac{10}{9}), ((-1), \frac{13}{18}), (1, (-\frac{2}{3})), (1, (-\frac{1}{18})), (2, (-\frac{4}{9}))$

(iii) $((-2), \frac{10}{9}), ((-1), \frac{13}{18}), ((-2), (-\frac{5}{3})), (1, (-\frac{1}{18})), (2, (-\frac{4}{9}))$

(iv) $((-2), \frac{10}{9}), ((-1), \frac{13}{18}), (0, \frac{1}{3}), (1, (-\frac{1}{18})), (4, \frac{14}{9})$ (v) $((-2), \frac{10}{9}), ((-1), \frac{13}{18}), (0, \frac{1}{3}), (1, (-\frac{1}{18})), (2, (-\frac{4}{9}))$

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

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

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

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

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

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

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

(i) $(2, (-2)), (2, (-1)), (2, 0), (2, 1), (4, 4)$ (ii) $(2, (-2)), (2, (-1)), (2, 0), (2, 1), (2, 2)$

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

(v) $(2, (-2)), (2, (-1)), (3, (-1)), (2, 1), (2, 2)$

Which of the following equations satisfy the given points

21. $((-2), (-\frac{8}{3})), ((-1), (-\frac{40}{9})), (0, (-\frac{56}{9})), (1, (-8)), (2, (-\frac{88}{9}))$?

(i) $x=(-1)$ (ii) $(9x+10y-5)=0$ (iii) $(-16x-9y-56)=0$ (iv) $y=(-\frac{16}{9}x-\frac{43}{9})$ (v) $x=(\frac{16}{9}y+\frac{13}{3})$

22. Which of the following equations satisfy the given points $((-2), \frac{76}{7}), ((-1), \frac{67}{7}), (0, \frac{58}{7}), (1, 7), (2, \frac{40}{7})$?

(i) $y=(-\frac{9}{7}x+\frac{58}{7})$ (ii) $(-9x-7y+17)=0$ (iii) $y=(-2)$ (iv) $x=(\frac{9}{7}y+\frac{74}{7})$ (v) $x=8$

23. Which of the following equations satisfy the given points $((-2), \frac{7}{3}), ((-1), \frac{3}{2}), (0, \frac{2}{3}), (1, (-\frac{1}{6})), (2, (-1))$?

(i) $y=(-2)$ (ii) $x=(\frac{14}{5}y+\frac{53}{5})$ (iii) $(5x+6y-4)=0$ (iv) $x=5$ (v) $(-14x-5y-17)=0$

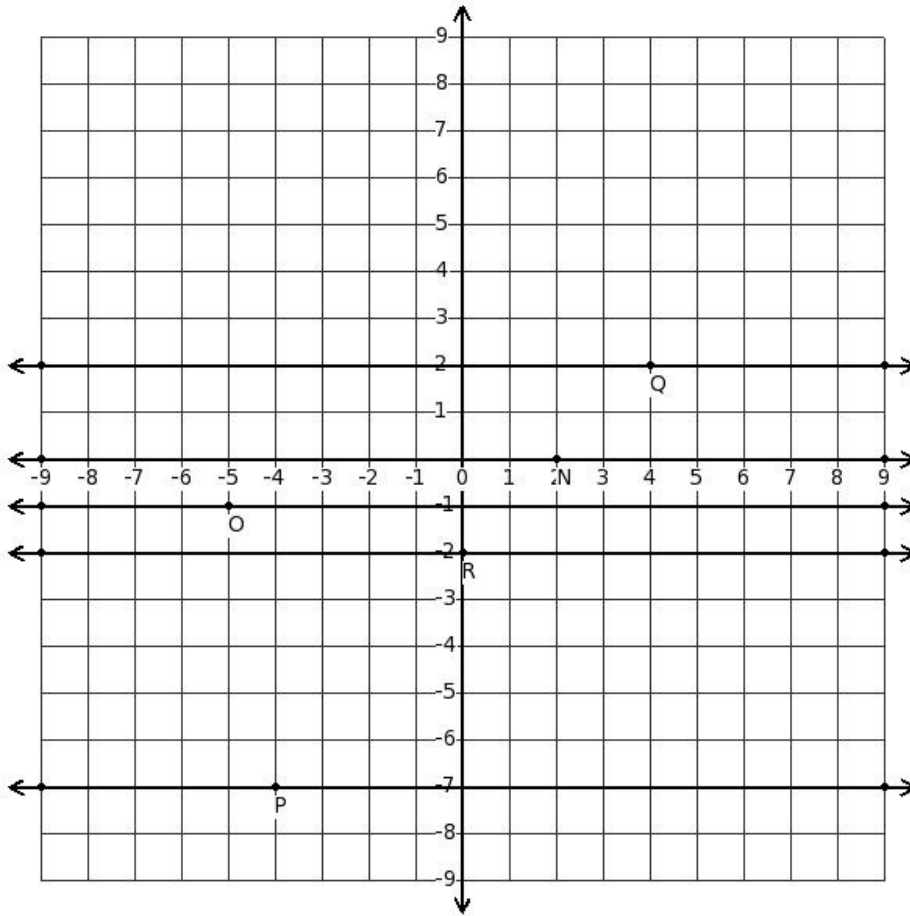
24. Which of the following equations satisfy the given points $((-2), 2), ((-1), 2), (0, 2), (1, 2), (2, 2)$?

(i) $x=(-3)$ (ii) $y=2$ (iii) $(9x+16y-8)=0$ (iv) $(-9x-12y+15)=0$ (v) $y=(-\frac{3}{4}x-\frac{1}{4})$

25. Which of the following equations satisfy the given points
 $((-8),(-2)),((-8),(-1)),((-8),0),((-8),1),((-8),2)$?

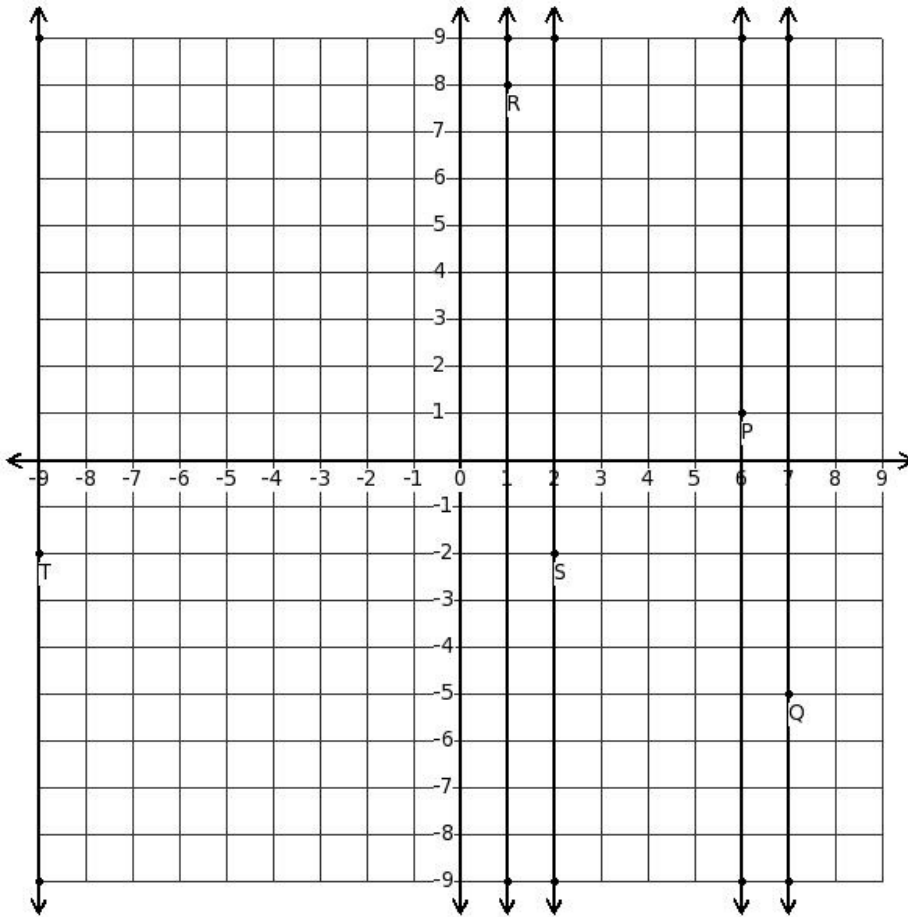
(i) $x = \left(\frac{11}{16}y - \frac{27}{2}\right)$ (ii) $(12x + 7y - 6) = 0$ (iii) $y = \left(-\frac{11}{16}x + \frac{5}{2}\right)$ (iv) $(-11x - 16y - 29) = 0$ (v) $x = (-8)$

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



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

27. Which of the displayed lines represent the equation $x = 6$



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

Assignment Key

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