## Chpater - 7

## Coordinate Geometry

1. The distance between (2, 3) and (5, 7) is:
A. 3
B. 4
C. 5
D. 6
Answer: D. 6
2. The coordinates of the midpoint of the line segment joining the points (2, 3) and (6, 7) are
A. (4, 5)
B. (5, 5)
C. (4, 6)
D. (5, 6)
Answer: A. (4, 5)
3. The point of intersection of the x-axis and y-axis is:
A. (1, 1)
B. (0, 1)
C. (1, 0)
D. (0, 0)
Answer: D. (0, 0)
4. The point (-5, -3) lies in the:

A. First quadrant
B. Second quadrant
C. Third quadrant
D. Fourth quadrant
Answer: C. Third quadrant
5. The point (–3, 5) lies in the:
A. First quadrant
B. Second quadrant
C. Third quadrant
D. Fourth quadrant
Answer: B. Second quadrant
6. The coordinates of a point on the y-axis is:
A. (0, 1)
B. (0, -1)
C. (1, 0)
D. (-1, 0)
Answer: B. (0, −1)
7. The coordinates of a point on the x-axis is:
A. (1, 0)
B. (0, 1)
C. (0, -1)
D. (-1, 0)

B. (3, 4)

C. (4, 3)

D. (3, 2)
Answer: A. (2, 3)
12. The point (–3, 4) lies in which quadrant?
A. First quadrant
B. Second quadrant
C. Third quadrant
D. Fourth quadrant
Answer: C. Third quadrant
13. The coordinates of the point which divides the line segment joining $(-4, -2)$ and $(-8, -6)$ in the ratio 3:1 are:
A. (-6, -3)
B. (-5, -2)
C. (-2, -6)
D. (-3, -5)
Answer: A. (-6, -3)
14. The coordinates of the point which divides the line segment joining $(-2, 3)$ and $(4, -5)$ in the ratio 2:3 are:
A. (2, -1)
B. (3, -2)
C. (-2, 3)

D. (-1, 2)

Answer: A. (2, −1)

15. The point (−3, −5) lies in which quadrant?
A. First quadrant
B. Second quadrant
C. Third quadrant
D. Fourth quadrant
Answer: D. Fourth quadrant
16. The distance between the points (−1, 2) and (3, −4) is:
A. 5
B. 6
C. 7
D. 8
Answer: C. 7
17. The coordinates of the point which divides the line segment joining $(2, -3)$ and $(-4, 5)$ in the ratio 3:4 are:
A. (-3, 2)
B. (-2, 3)
C. (3, -2)
D. (2, -3)
Answer: B. (-2, 3)
18. The point (–2, 0) lies on which axis?
A. x-axis
B. y-axis
C. origin
D. none of the above

Answer: A. x-axis19. The point (0, -4) lies on which axis?
A. x-axis
B. y-axis
C. origin
D. none of the above
Answer: B. y-axis
20. The point (–5, 0) lies on which axis?
A. x-axis
B. y-axis
C. origin
D. none of the above
Answer: A. x-axis
21. The point (0, 0) is called:
A. origin
B. point of intersection
C. point of origin
D. none of the above
Answer: A. origin
22. The point $(-2, -2)$ lies in which quadrant?
A. First quadrant
B. Second quadrant
C. Third quadrant

D. Fourth quadrant

Answer: C. Third quadrant

23. The point (4, -3) lies in which quadrant?

A. First quadrant

B. Second quadrant

C. Third quadrant

D. Fourth quadrant

Answer: D. Fourth quadrant

24. The point (-3, 4) lies in which quadrant?

A. First quadrant

B. Second quadrant

C. Third quadrant

D. Fourth quadrant

Answer: A. First quadrant

25. The point (5, 0) lies on which axis?

A. x-axis

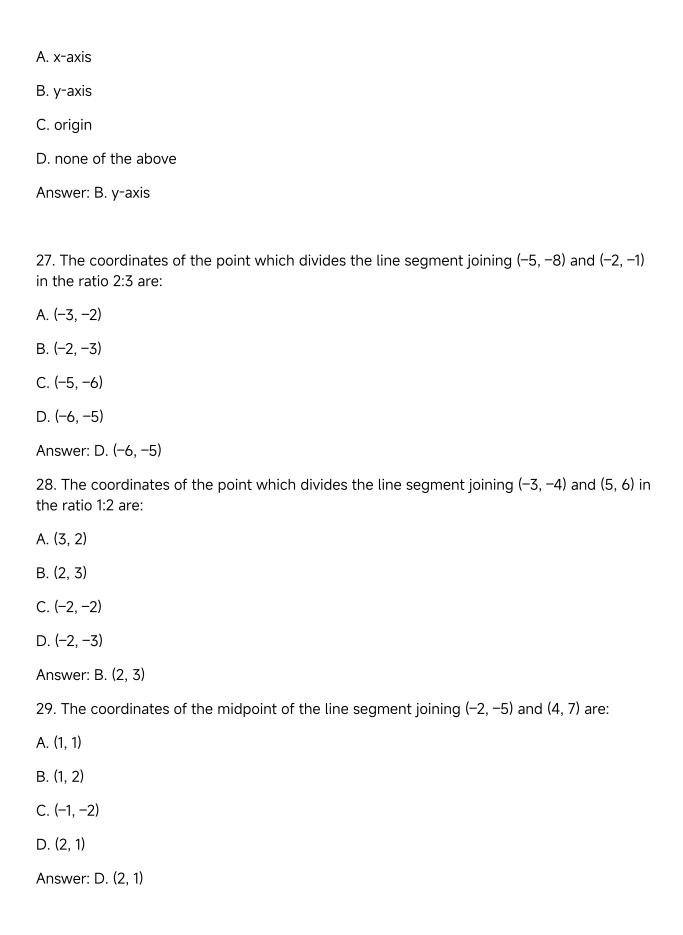
B. y-axis

C. origin

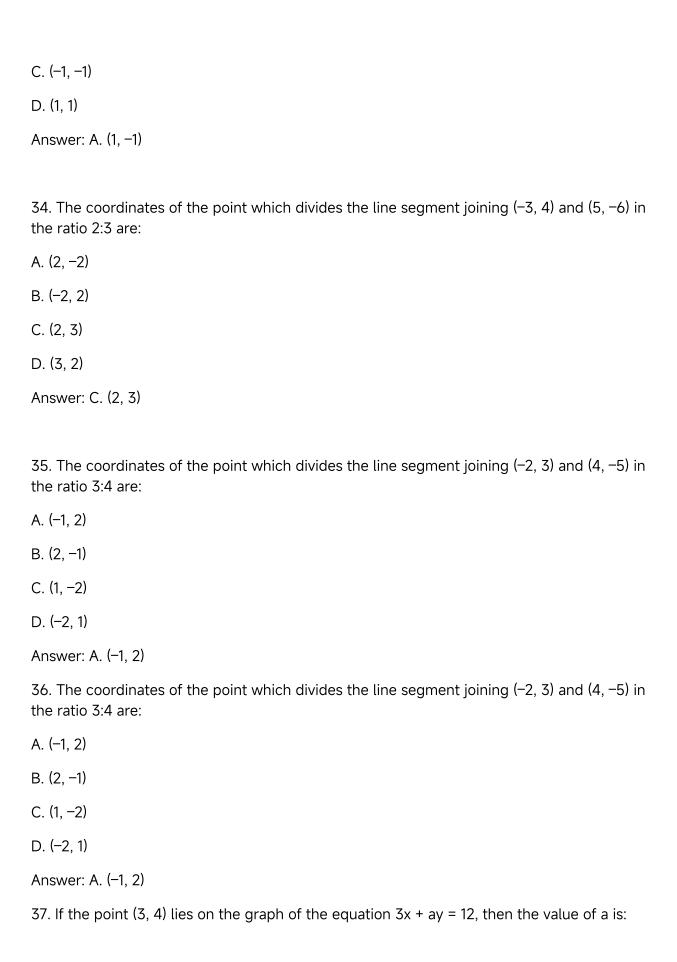
D. none of the above

Answer: A. x-axis

26. The point (0, 5) lies on which axis?



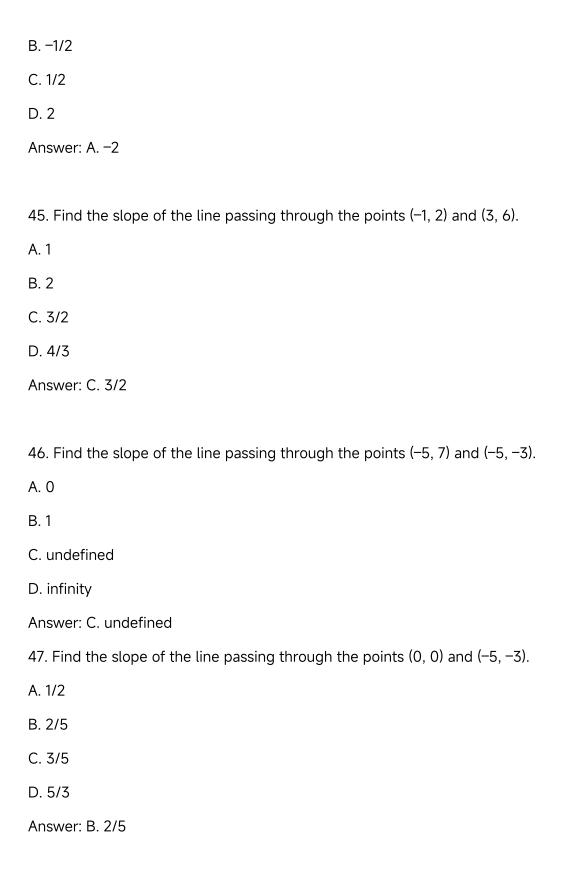
30. The distance between the points (–2, –3) and (4, 5) is:
A. 10
B. 9
C. 8
D. 7
Answer: A. 10
31. The distance between the points (–5, –6) and (–2, –1) is:
A. √30
B. √29
C. √28
D. √27
Answer: B. √29
32. The distance between the points $(-3, 5)$ and $(4, -2)$ is:
A. √74
B. √72
C. √70
D. √68
Answer: A. √74
33. The coordinates of the point which divides the line segment joining $(-2, 5)$ and $(3, -4)$ in the ratio 3:2 are:
A. (1, -1)
B. (-1, 1)



A. 1
B. 2
C. 3
D. 4
Answer: A. 1
38. Find the distance between the points (–2, –1) and (4, 5).
A. 4 units
B. 6 units
C. 8 units
D. 10 units
Answer: C. 8 units
39. The mid-point of the line segment joining the points A (2, 3) and B (–2, 1) is:
A. (0, 2)
B. (2, 0)
C. (0, 1)
D. (1, 0)
Answer: A. (0, 2)
40. Find the coordinates of the point which divides the line segment joining $(-3, 7)$ and $(2, -3)$ in the ratio 2:3.
A. (-1, 3)
B. (3, -1)
C. (1, -3)
D. (-3, 1)

44. Find the slope of the line passing through the points (-2, 3) and (4, -5).

A. -2



48. Find the slope of the line passing through the points $(-4, -3)$ and $(-4, 5)$ .
A. 0
B. 1
C. undefined
D. infinity
Answer: C. undefined
49. Find the slope of the line passing through the points (2, 3) and (–4, 9).
A6/7
B2/3
C. 2/3
D. 6/7
Answer: A6/7
50. Find the slope of the line passing through the points $(-1, 2)$ and $(-1, -3)$ .
A. 0
B. 1
C. undefined
D. infinity
Answer: C. undefined