



MATHS

BOOKS - MBD NCERT SOLUTIONS

CO-ORDINATE GEOMETRY

Multiple Choice Questions

1. Point $P(6, -4)$ lies in which quadrant?

A. First

B. Second

C. Third

D. Fourth.

Answer: D



Watch Video Solution

2. Coordinates of midpoint of line joining two points $(-1, 7)$ and $(4, -3)$ are :

A. $\left(-\frac{3}{2}, 2\right)$

B. $\left(\frac{3}{2}, 2\right)$

C. $\left(\frac{3}{2}, -2\right)$

D. $\left(2, \frac{3}{2}\right)$

Answer: B



Watch Video Solution

3. Point $Q(-3, -4)$ lies in which quadrant?

A. First

B. Third

C. Second

D. Fourth.

Answer: B



Watch Video Solution

4. Coordinates of midpoint of line joining two points $(-5, 7)$ and $(5, -7)$ are :

A. $(5, 7)$

B. $(0, 0)$

C. $(0, 7)$

D. $(5, 0)$

Answer: B



Watch Video Solution

5. Point $P(3, 4)$ lies in which quadrant?

A. First

B. Second

C. Third

D. Fourth.

Answer: A



Watch Video Solution

6. Coordinates of midpoint of line joining two

points $\left(\frac{5}{7}, \frac{-3}{2}\right)$ and $\left(\frac{-5}{7}, \frac{3}{2}\right)$ are :

A. $(5, -3)$

B. $\left(\frac{5}{14}, \frac{3}{4}\right)$

C. $(0, 0)$

D. None of these

Answer: C



Watch Video Solution

7. Point $P(-3, -4)$ lies in which quadrant?

A. First

B. Second

C. Third

D. Fourth.

Answer: C



Watch Video Solution

8. Find the coordinates of that point, which is the line segment joining points $(-1, 7)$ and $(4, -3)$ in the ratio of $2:3$.

A. $(1, 3)$

B. $(-1, 3)$

C. $(1, -3)$

D. $(-1, -3)$

Answer: A



Watch Video Solution

9. The distance of point $(5, -7)$ from origin is :

A. $\sqrt{74}$

B. -2

C. 2

D. 12

Answer: A



Watch Video Solution

10. Find the area of a triangle whose vertices are $(1, -1)$, $(-4, 6)$ and $(-3, -5)$. (AS_1)

A. $\frac{43}{2}$

B. 8

C. 24

D. None of these

Answer: C



Watch Video Solution

11. The distance of point $(-4, 5)$ from origin is :

A. 1

B. 9

C. $\sqrt{41}$

D. None of these

Answer: C



Watch Video Solution

12. The area of the triangle formed by joining the points $(-5, 3)$, $(6, -2)$ and $(-3, 4)$ is :

A. 15

B. 30

C. 10.5

D. None of these

Answer: C



Watch Video Solution

13. The distance of point $(- 5, 12)$ from origin is :

A. 13

B. 17

C. 7

D. 6

Answer: A



Watch Video Solution

14. Find area of triangle formed by the points
A(5;2);B(4;7) and C (7;-4)

A. 57 sq units

B. 2 sq units

C. 0

D. None of these

Answer: D



Watch Video Solution

15. The distance of the point $P(3, -4)$ from the origin is

A. -1

B. 1

C. 5

D. 7

Answer: C



Watch Video Solution

16. The area of triangle formed by joining $(2, 3)$, $(-1, 0)$ and $(2, -4)$ is :

A. 21

B. 10.5

C. 0

D. None of these

Answer: B



Watch Video Solution

17. The distance between the points $P(x, y)$ and $Q(0, 0)$ will be:

A. $x^2 + y^2$

B. $\sqrt{x^2 - y^2}$

C. $\sqrt{x^2 + y^2}$

D. $\sqrt{x + y}$

Answer: C



Watch Video Solution

18. The midpoint of the line segment joining the points $(-4, 3)$ and $(8, -5)$ is :

A. $(-12, 8)$

B. $(4, -2)$

C. $(-2, 1)$

D. $(2, -1)$

Answer: D



Watch Video Solution

19. The co - ordinates of midpoint of the points

$(- 3, 4)$ and $(1, - 2)$ are :

A. $(1, - 2)$

B. $(- 2, 3)$

C. $(2, 1)$

D. $(- 2, - 3)$

Answer: A



Watch Video Solution

20. The distance between the points $(0, 0)$ and $(-6, 8)$ is :

A. 2

B. 10

C. -6

D. 8

Answer: B



Watch Video Solution

21. If the points $A(2, 3)$, $B(4, k)$ and $C(6, -3)$ are collinear, find the value of k .

A. -1

B. 0

C. 1

D. None of these

Answer: B



Watch Video Solution

22. Find the point on the x -axis which is equidistant from $(2, -5)$ and $(-2, 9)$.

A. $(-7, 0)$

B. $(7, 0)$

C. $(0, -7)$

D. $(5, 0)$

Answer: A



Watch Video Solution

23. Find the distance between the points

$P(-6, 7)$ and $Q(-1, -5)$

A. $\sqrt{13}$

B. 13

C. $\sqrt{119}$

D. -13 .

Answer: B



Watch Video Solution

24. The distance of a point from the y -axis is called its x -coordinate or _____

A. Abscissa

B. Ordinate

C. Origin

D. None of these

Answer: B



Watch Video Solution

Very Short Answer Type Questions

1. Find the distance between the points $(2, 3)$ and $(4, 1)$.



Watch Video Solution

2. Find the midpoint of the line joining the points $(7, 6)$ and $(-3, -4)$.



Watch Video Solution

3. Find the distance between the points $(-5, 7)$ and $(-1, 3)$.



Watch Video Solution

4. Find the midpoint of the line joining the points $(3, 4)$ and $(5, 2)$.



[Watch Video Solution](#)

Short Answer Type Questions

1. Find the ratio in which the y -axis divides the line segment joining the points $(5, -6)$ and $(-1, -4)$. Also, find the coordinates of the point of division.



Watch Video Solution

2. Find the ratio in which the line joining $(5, -6)$ and $(-1, -4)$ is divided by x - axis. Also find the coordinates of the point of intersection.



Watch Video Solution

3. Find the ratio in which the line joining $A(1, -5)$ and $B(-4, 5)$ is divided by x -

axis. Also find the coordinates of the point of intersection.



Watch Video Solution

4. Find the ratio in which the line joining $(3, 4)$ and $(-4, 7)$ is divided by y - axis. Also find the coordinates of the point of intersection.



Watch Video Solution

5. If $(1, 2)$, $(4, y)$, $(x, 6)$ and $(3, 5)$ are the vertices of a parallelogram taken in order, find x and y .



[Watch Video Solution](#)

6. Find the coordinates of a point A , here AB is a diameter of the circle whose centre is $(2, -3)$ and $B(1, 4)$.



[Watch Video Solution](#)

7. Find the point on the x -axis which is equidistant from $(2, -5)$ and $(-2, 9)$



Watch Video Solution

8. Find the co - ordinates of the point which divides the join $(1, 7)$ and $(4, -3)$ in the ratio $2:3$.



Watch Video Solution

9. Find the ratio in which the line segment joining the points $(-3, 10)$ and $(6, -8)$ is divided by $(-1, 6)$.



[Watch Video Solution](#)

10. Find the values of y for which the distance between the points $P(2, -3)$ and $Q(10, y)$ is 10 units.



[Watch Video Solution](#)

11. Find the coordinates of the points of trisection of the line segment joining the points $(2,-2)$ and $(-7,-4)$



Watch Video Solution

12. Find the co - ordinates of the points of trisection of the line segment joining $(4, - 1)$ and $(- 2, - 3)$.



Watch Video Solution

13. Find a relation between x and y such that the point (x, y) is equidistant from the points $(3, 6)$ and $(-3, 4)$



Watch Video Solution

14. Find the value of k for which the points $(7, -2)$, $(5, 1)$ and $(3, k)$ are collinear.



Watch Video Solution

15. Determine if the points $(2, 3)$, $(4, 0)$ and $(6, -3)$ are collinear



Watch Video Solution

16. Find the value of k if the points $A(8, 1)$, $B(k, -4)$ and $C(2, -5)$ are collinear.



Watch Video Solution

17. Find the area of a triangle whose vertices are $(1, -1)$, $(-4, 6)$ and $(-3, -5)$. (AS_1)



Watch Video Solution

18. Find the area of triangle whose vertices are $(-15, 3)$, $(6, -2)$ and $(-3, 4)$.



Watch Video Solution