

Coordinate Geometry

- 1- What is the reflection of the point (2, -3.5) in the y-axis?
(A) (-2, 3.5) (B) (-2, -3.5)
(C) (-3.5, -2) (D) (3.5, -2)
- 2- What is the reflection of the point (5, 3) in the line $y = -2$?
(A) (-9, 3) (B) (-5, -7)
(C) (-9, -3) (D) (5, -7)
- 3- What is the reflection of the point (5, -2) in the line $y = -1$?
(A) (-7, -2) (B) (-5, 0)
(C) (5, 0) (D) (-7, 2)
- 4- What is the reflection of the point (-4, 3) in the line $x = -2$?
(A) (-4, -7) (B) (4, 3)
(C) (0, 3) (D) (-4, 7)
- 5- What is the reflection of the point (6, -3) in the line $y = 2$?
(A) (-2, -3) (B) (6, 7)
(C) (-6, 7) (D) (-2, 3)
- 6- The co-ordinates of the centroid of a triangle ABC are (1, -4). What are the co-ordinates of vertex C if co-ordinates of A and B are (3, -4) and (0, 5) respectively?
(A) (0, 13) (B) (0, 5)
(C) (0, -5) (D) (0, -13)
- 7- What are the co-ordinates of the centroid of a triangle, whose vertices are A(1, -5), B(-4, 0) and C(3, -4)?
(A) (0, 6) (B) (0, -3)
(C) (0, -5) (D) (0, 5)
- 8- In what ratio does the point T(x, 0) divide the segment joining the points S(5, 1) and U(-1, -2)?
(A) 2 : 1 (B) 1 : 2
(C) 3 : 1 (D) 2 : 3
- 9- Point P is the midpoint of segment AB. Co-ordinates of P are (3, 1) and B are (5, -4). What are the co-ordinates of point A?
(A) (-1, 7) (B) (1, -7)
(C) (1, 6) (D) (-1, -7)
- 10- Point A (2, 1) divides segment BC in the ratio 2:3. Co-ordinates of B are (1, -3) and C are (4, y). What is the value of y?
(A) 8 (B) -7
(C) -8 (D) 7
- 11- What are the co-ordinates of the centroid of a triangle, whose vertices are A(1, -5), B(4, 0) and C(-2, 2)?
(A) (1, -1) (B) (-1, 1)
(C) (2, -2) (D) (-2, 2)
- 12- In what ratio is the segment joining points (2, 3) and (-2, 1) divided by the Y-axis?
(A) 1 : 2 (B) 1 : 1
(C) 3 : 1 (D) 2 : 3
- 13- The co-ordinates of the centroid of a triangle ABC are (2, 2). What are the co-ordinates of vertex C if co-ordinates of A and B are (7, -1) and (1, 2) respectively?
(A) (-2, 5) (B) (2, 5)
(C) (-2, -5) (D) (2, -5)
- 14- Point P (-2, 5) is the midpoint of segment AB. Co-ordinates of A are (-5, y) and B are (x, 3). What is the value of x?
(A) 1 (B) -1
(C) 2 (D) -2
- 15- The distance between the points (2, 7) and (k, -5) is 13. What is the value of k?
(A) -7 (B) 7
(C) 6 (D) -6



- 16 -** Point A divides segment BC in the ratio 4:1. Co-ordinates of B are (6, 1) and C are (7/2, 6). What are the co-ordinates of point A?
(A) (4, 3) (B) (4, 5)
(C) (2, 5) (D) (3, 5)
- 17 -** Point P is the midpoint of segment AB. Co-ordinates of P are (5, -1) and A are (2, -4). What are the co-ordinates of point B?
(A) (6, 4) (B) (8, 2)
(C) (1, -2) (D) (-6, -2)
- 18 -** What is the distance between the points (3, 6) and (-2, -6)?
(A) 15 (B) 13
(C) 11 (D) 12
- 19 -** In what ratio does the point T(x, 0) divide the segment joining the points S(-4, -1) and U(1, 4)?
(A) 1 : 4 (B) 4 : 1
(C) 1 : 2 (D) 2 : 1
- 20 -** What is the reflection of the point (-3, 2) in the line $x = 2$?
(A) (-3, -6) (B) (-1, 2)
(C) (-3, 6) (D) (7, 2)