

Mental Ability

Ganit Bodh Series

Self Evaluation Test -19 (Co-ordinate Geometry)

- If three consecutive vertices of a rectangle are (0, 0), (2, 0), (0, 3), then the co-ordinates of the fourth vertex is
 - (-2, -3)
 - (-2, 3)
 - (2, 3)
 - (2, 3)
- The triplet of points (2, 4), (0, 1), (4, 7) are
 - collinear.
 - the vertices of a right angled triangle.
 - the vertices of an isosceles triangle.
 - the vertices of an equilateral triangle.
- At what point the origin be shifted if the co-ordinates of a point (4, 5) become (-3, 9)?
 - (-7, -4)
 - (7, -4)
 - (7, 4)
 - None
- The line segment joining A (6, 3) to B (-1, -4) is doubled in length by having half its length added to each end. Find the co-ordinates of the new ends.
 - (-9/2, 15/2) & (19/2, 15/2)
 - (9/2, -15/2) & (19/2, -15/2)
 - (-9/2, -15/2) & (19/2, 13/2)
 - None
- Three consecutive vertices of a rhombus are (5, 3), (2, 7) and (-22, 4). Then the fourth vertex is
 - (19, 0)
 - (29, 0)
 - (-19, 0)
 - None
- The co-ordinates of points P, Q, R and S are (-3, 5), (4, -2), (p, 3p) and (6, 3) respectively and the areas of Δ s PQR and QRS are in ratio 2 : 3. Then value of p will be
 - 2
 - 4
 - 3
 - None
- The co-ordinates of the centroid of the the triangle whose vertices are (4, -2), (-2, 4) and (5, 5) is
 - (5, 7)
 - (-3, 4)
 - (6, -9)
 - None
- Three points A (6, 6), B (2, 3), C (4, 7) are
 - collinear.
 - the vertices of a right angled triangle.
 - the vertices of an isosceles triangle.
 - the vertices of an equilateral triangle.
- The co-ordinates of the point which divides the join of P(5, -2) and Q(9, 6) internally in ratio 3:1 is
 - (8, 4)
 - (7, 2)
 - (11/2, 10)
 - (-6, -4)
- The condition that the point (x, y) may lie on the line joining the points (3, 4) and (-5, -6) is
 - $5x - 4y = 1$
 - $5x - 4y + 1 = 0$
 - $5x - 4y - 1 = 0$
 - None
- The area of quadrilateral formed by the vertices (1, 1), (7, -3), (12, 2), (7, 21) is
 - 123
 - 264
 - 132
 - 213
- If the area of the quadrilateral whose angular points taken in order are (1, 2), (-5, 6), (7, -4), (K, -2) be zero, then the value of K =
 - 3.
 - 4
 - 2
 - none
- The ratio in which the point P (-7, 3) divide the join of A(-2, 4) and B(3, 5) is
 - 1:2
 - 3:2
 - 9:4
 - 5:9
- The ratio in which the segment joining the points (5, 6) and (2, -3) is divided by X-axis is
 - 2:1 externally
 - 2:1 internally
 - 2:3 internally
 - 2:3 externally
- The area of triangle with vertices (-2, 1), (2, -3), (4, 4) is
 - 36
 - 18
 - 9
 - 6
- The points A (-2, 3), B (3, 4), C (x, y) form an equilateral triangle. then the value of x will be
 - (-3, 4)
 - (-4, 0)
 - (-3, -3)
 - None
- The coordinate of the point bisecting the line joining of (4, -5) and (12, 11) is
 - (8, 3)
 - (8, -3)
 - (8, -8)
 - (4, 3)
- If A(-1, 3), B (1, -1) and C (5, 1) are the vertices of a triangle, then the length of median through vertex A is
 - 4
 - 6
 - 5
 - 3
- Three points A (8, 2), B (5, -3), C(0, 0) are
 - the vertices of an isosceles triangle.
 - the vertices of a right angled triangle.
 - collinear.
 - the vertices of an equilateral triangle.
- If (4, 5), (4, -3) and (-2, 3) are the mid-points of the sides of triangle, then the co-ordinates of the centroid of the triangle is
 - (2, 2)
 - (2, 5/2)
 - (2, 5/3)
 - (3, 5/3)