Coordinate Geometry : Worksheet -5

1. The perimeter of the triangle whose vertices are (0,0),(5,0) and (0,12) is_ _ _ _ _ _ _ _
2. The points (a, b + c) , (b , c + a) and (c , a + b) are _ _ _ _ _ _ _ _ _ _
3. If one end point of line segment is (x_1, y_1) and, midpoint is (x, y) then the co-ordinates of other end point: _ _ _ _ _ _ _ _ _ _ _
4. If (x_1, y_1), (x_2, y_2) are the end points of a line segment then the co-ordinates of trisecting points: _ _ _ _ _ _ _ _ _ _ _
5. If (x_1, y_1), (x_2, y_2) are two vertices of a triangle and (x, y) is its centroid then the co-ordinates of its third vertex: _ _ _ _ _ _ _ _ _ _ _
6. In a triangle one of the side is equal to its circum diameter then the triangle is _ _ _ _ _ _ _ _ _ _ _ triangle.
7. If a line makes equal intercepts on the axes, and its slope is – 1 then the equation of line is: _ _ _ _ _ _ _ _ _ _ _
8. The circum-centre of a triangle formed by the vertices (0, 0), (3, 0) and (0, 4) is:_ _ _ _ _ _ _ _ _
9. If (x, y) is equidistant from (6, –1) and (2, 3) then the relation between x and y is: _ _ _ _ _ _ _ _ _ _ _
10. If A, B, C are collinear points such that A (3, 4); B (7, 7) and AC = 10 then co-ordinates of C: _ _ _ _ _ _ _ _ _ _ _
11. The number of points equidistant to two given distant points: _ _ _ _ _
12. The number of points equidistant to the three given distant non-collinear points: _ _ _ _ _ _ _ _
13. If the centroid of the triangle formed by (p, q), (q, 1), (1, p) is the origin then $p^3 + q^3 + 1 =$ _ _ _ _ _ _ _ _ _ _ _