

Class 10 Mathematics - Coordinate Geometry

Name: _____

Date: _____

Advanced Worksheet 4

Questions

1. If A(1, 2), B(5, 6), and C(9, 10) are three points, determine whether they are collinear.
2. Find the ratio in which the point (2, 3) divides the line segment joining (-4, -1) and (8, 7).
3. Find the coordinates of the midpoint of the line segment joining (-15, 5) and (9, -7).
4. Find the distance between the points (-4, 11) and (8, 2).
5. Find the coordinates of the point dividing the line segment joining (-2, 4) and (10, -8) in the ratio 3 : 2.
6. A point is equidistant from (4, 6) and (8, 2). Find the equation representing such points.

Answer Key

1. Yes, the points are collinear.
2. 1 : 2
3. (-3, -1)
4. 15 units
5. $(\frac{26}{5}, -\frac{16}{5})$
6. $x + y = 10$

