

## Class 10 Mathematics - Coordinate Geometry

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Medium Worksheet 3

#### Questions

1. Determine whether the points (2, 3), (4, 5), and (6, 7) are collinear.
2. Find the midpoint of  $(-8, 4)$  and  $(4, -2)$ .
3. Find the distance between  $(1, 1)$  and  $(7, 9)$ .
4. Find the coordinates of the point dividing  $(3, 5)$  and  $(9, 11)$  in the ratio 1:2.
5. Find the coordinates of the point dividing  $(-4, 2)$  and  $(8, 14)$  in the ratio 2:1.
6. Find the distance between  $(-2, -3)$  and  $(4, 5)$ .

#### Answer Key

1. Yes, the points are collinear.
2.  $(-2, 1)$
3. 10 units
4.  $(5, 7)$
5.  $(4, 10)$
6. 10 units