

# Class 10 Mathematics - Coordinate Geometry

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

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

## Advanced Worksheet 1

### Questions

1. Find the ratio in which the point  $(-4, 6)$  divides the line segment joining  $A(-6, 10)$  and  $B(3, -8)$ .
2. Find the coordinates of the point that trisects the line segment joining  $(2, -2)$  and  $(-7, 4)$ .
3. If  $A(6, 1)$ ,  $B(8, 2)$ ,  $C(9, 4)$  and  $D(p, 3)$  are the vertices of a parallelogram, find the value of  $p$ .
4. Find the distance between the points  $(-7, 4)$  and  $(5, -5)$ .
5. Determine whether the points  $(2, 1)$ ,  $(5, 4)$  and  $(8, 7)$  are collinear.
6. Find the midpoint of the line segment joining  $(-10, -6)$  and  $(4, 8)$ .

### Answer Key

1.  $2 : 7$
2.  $(-1, 0)$  and  $(-4, 2)$
3.  $p = 7$
4. 15 units
5. Yes, the points are collinear.
6.  $(-3, 1)$