

Class 10 Mathematics - Coordinate Geometry

Name: _____

Date: _____

Advanced Worksheet 3

Questions

1. Find the coordinates of the point dividing the line segment joining $(-3, 4)$ and $(9, 10)$ in the ratio $2 : 3$.
2. A point P divides the line segment joining $A(2, 6)$ and $B(8, 0)$ in the ratio $1 : 2$. Find the coordinates of P.
3. Find the distance between the points $(-9, -4)$ and $(3, 5)$.
4. Find the midpoint of the line segment joining $(-6, 12)$ and $(10, -8)$.
5. Determine whether the points $(1, 3)$, $(4, 6)$ and $(7, 9)$ are collinear.
6. Find the distance of the point $(9, 12)$ from the origin.

Answer Key

1. $(9/5, 32/5)$
2. $(4, 4)$
3. 15 units
4. $(2, 2)$
5. Yes, the points are collinear.
6. 15 units