# Chapter-Coordinate Geometry
## Question bank

Q1.

Find the ratio in which the point (-3, k) divides the line-segment joining the points (-5, -4) and (-2,3). Also find the value of k.

Q2.

Show that the points (a,a), (-a,-a) and (-√3a, √3 a) are the vertices of an equilateral triangle.

Q3.

If the point A(0, 2) is equidistant from the points B(3, p) and C(p, 5), find p. Also find the length of AB.

Q4.

If the centre and radius of circle is $(3,4)$ and 7 units respectively,, then what it the position of the point $A(5,8)$ with respect to circle?

Q5.

The ordinate of a point $A$ on y-axis is 5 and $B$ has co-ordinates $(-3,1)$. Find the length of $AB$.

Q6.

Find the coordinates of a point $A$, where $AB$ is diameter of a circle whose centre is $(2,-3)$ and $B$ is the point $(1,4)$.

Q7.

If the distance between the points $(4,k)$ and $(1,0)$ is 5, then what can be the possible values of $k$.

Q8.

If the point P(2, 2) is equidistant from the points A(-2, k) and B(-2k, -3), find k.

Q9.

The x-coordinate of a point **P** is twice its y-coordinate.
If **P** is equidistant from **Q** (2, −5) and **R** (−3, 6), find the co-ordinates of **P**

Q10.

Find a relation between $x$ and $y$ such that the point $P(x,y)$ is equidistant from the points $A(-5,3)$ and $B(7,2)$.