

**Coordinate Geometry : Worksheet -6**

1. Find the distance between the following pairs of points :

(i)  $(2, 3), (4, 1)$

(ii)  $(-5, 7), (-1, 3)$

(iii)  $(a, b), (-a, -b)$

2. Verify if the points  $(1, 5), (2, 3)$  and  $(-2, -11)$  are collinear. or not

3. Check whether  $(5, -2), (6, 4)$  and  $(7, -2)$  are the vertices of an isosceles triangle.



4. If  $Q(0, 1)$  is equidistant from  $P(5, -3)$  and  $R(x, 6)$ , find the values of  $x$ .  
Also find the distances  $QR$  and  $PR$ .

5. Find a relation between  $x$  and  $y$  such that the point  $(x, y)$  is equidistant from the point  $(3, 6)$  and  $(-3, 4)$ .

