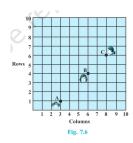
CHAPTER-7 COORDINATE GEOMETRY

1 EXERCISE - 7.1

- 1. Find the distances between the following pairs of points:
 - (a) (2,3),(4,1)
 - (b) (-5,7),(-1,3)
 - (c) (a,b),(-a,-b)
- 2. Find the distance between the points (0,0) and (36,15),Can you now find the distances between the two towns A and B discussed in Section 7.2.
- 3. Determine if the points(1,5),(2,3) and (-2,-11) are collinear.
- 4. Check whether (5,-2), (6,4) and (7,-2) are the vertices of an isosceles triangle.
- 5. In a classroom, 4 friends are seated at the points A,B,C and D as shown in Fig. 7.8, Champa and Chameli walk in to the class and after observing for a few minutes Champa asks Chameli,"Dont't you think ABCD is a square?" Chameli disagrees, Using distance formula, find which of them is correct.



- 6. Name the type of quadrilateral formed, if any, by the following points, and give reasons for your answer:
 - (a) (-1,-2),(1,0),(-1,2),(-3,0)

- (b) (-3,5),(-3,1),(0,3),(-1,-4)
- (c) (4,5),(7,6),(4,3),(1,2)
- 7. Find the point on the x-axis which is equidistant from (2,-5) and (-2,9).
- 8. Find the values of y for which the distance between the points P(2,-3) and Q(10,y) is 10 units.
- 9. 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.
- 10. 10. Find a relation between x and y such that the point (x, y) is equidistant from the point (3, 6) and (-3, 4).