



## Practice Assignment 1A

1. Find the distance between the following pairs of points:
  - (i)  $(3, 4), (5, 2)$
  - (ii)  $(-4, 6), (-2, 4)$
  - (iii)  $(p, q), (-p, -q)$ .
2. Find the distance between the following pairs of points:
  - (i)  $(4, 5), (6, 2)$
  - (ii)  $(-5, 7), (-3, 5)$
  - (iii)  $(2s, 2t), (-s, -t)$
3. Check whether  $(4, -1), (5, 3)$  and  $(6, -1)$  are the vertices of an isosceles triangle.
4. Check whether  $(6, -3), (7, 5)$  and  $(8, -3)$  are the vertices of an isosceles triangle.
5. Find the coordinates of the point which divides the join of  $(-2, 8)$  and  $(5, -4)$  in the ratio 3:4.
6. Find the coordinates of the point which divides the join of  $(-3, 9)$  and  $(5, -7)$  in the ratio 4:5.
7. Find the ratio in which the line segment joining the points  $(-2, -8)$  and  $(5, 6)$  is divided by  $(1, -2)$ .
8. Find the ratio in which the line segment joining the points  $(-4, 12)$  and  $(7, -10)$  is divided by  $(1, 2)$ .
9. Find the area of the triangle whose vertices are:
  - (i)  $(3, 4), (-2, 1), (3, -5)$
  - (ii)  $(-6, -2), (4, -6), (6, 3)$
10. Find the area of the triangle whose vertices are:
  - (i)  $(5, 6), (-3, 2), (5, -6)$
  - (ii)  $(-7, -3), (5, -6), (7, 4)$ .