

# LATEX ASSIGNMENT

ANAND

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## EXERCISE 10.7.3

1. Find the area of the triangles whose vertices are:
  - (i)  $(2, 3), (-1, 0), (2, -4)$
  - (ii)  $(-5, 1), (3, -5), (5, 2)$
2. In each of the following value of 'K', for which the points are collinear.
3. Find the area of the triangle by joining the mid-points of the sides of the triangle whose vertices are  $(0, 1), (2, 1)$  and  $(0, 3)$ . Find the ratio of this area to the area of the given triangle.
4. Find the area of the quadrilateral whose vertices, taken in order, are  $(-4, -2), (-3, -5), (3, -2)$  and  $(2, 3)$ .
5. You have studied in class IX (chapter 9, Example 3), that a median of a triangle divides it into two triangles of equal areas. Verify this result for  $\triangle ABC$  whose vertices are  $A(4, -6), B(3, -2)$  and  $C(5, 2)$ .