

Area of a Traingle

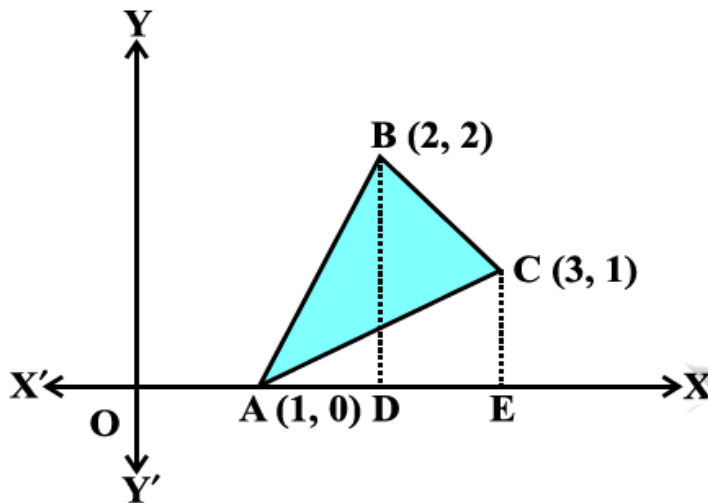
1 10th Maths - Chapter 7

All problems are from Exercise 7.3

- Find the area of the triangle whose vertices are :
 - $((2, 3), (-1, 0), (2, -4))$
 - $(-5, -1), (3, -5), (5, 2)$
- In each of the following, find the value of 'k', for which the points are collinear.
 - $(7, -2), (5, 1), (3, k)$
 - $(8, 1), (k, -4), (2, -5)$
- Find the area of the triangle formed 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.
- Find the area of the quadrilateral whose vertices, taken in order, are $(-4, -2), (-3, -5), (3, -2)$ and $(2, 3)$.
- 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 $\vec{A}(4, -6), \vec{B}(3, -2)$ and $\vec{C}(5, 2)$.

2 12th Maths - Chapter 8

- Using integration find the area of region bounded by the triangle whose vertices are $(1, 0), (2, 2)$ and $(3, 1)$ (Ref : Example 9)



2. Using integration find the area of region bounded by the triangle whose vertices are $(-1, 0)$, $(1, 3)$ and $(3, 2)$. (Ref : Problem 4 in Ex 8.2)
3. Using the method of integration find the area of the $\triangle ABC$, coordinates of whose vertices are $\vec{A}(2, 0)$, $\vec{B}(4, 5)$ and $\vec{C}(6, 3)$. (Ref: Problem 13 in Misc Exercise on Chapter 8)