

$$ax^2 + bx + c = 0$$



## Activity



### Topic

Centroid of a Triangles

### Objective

To find the centroid of a triangle using paper cutting and folding activity.

### Previous Knowledge Required

1. Concept of finding the mid-point of a line segment by paper folding.
2. Definition of medians.
3. Meaning of Centroid.

### Material Required

Coloured papers, a pair of scissors, pencil, geometry box, fevistick.

### Procedure

1. Cut an acute-angled triangle ABC from a coloured sheet of paper.

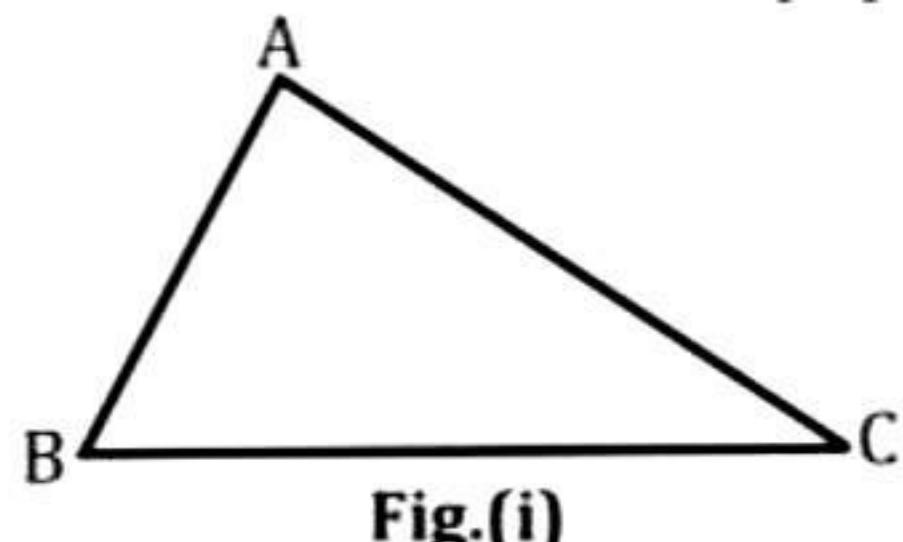


Fig.(i)

2. Find the mid-points of sides AB, BC and AC by paper folding.

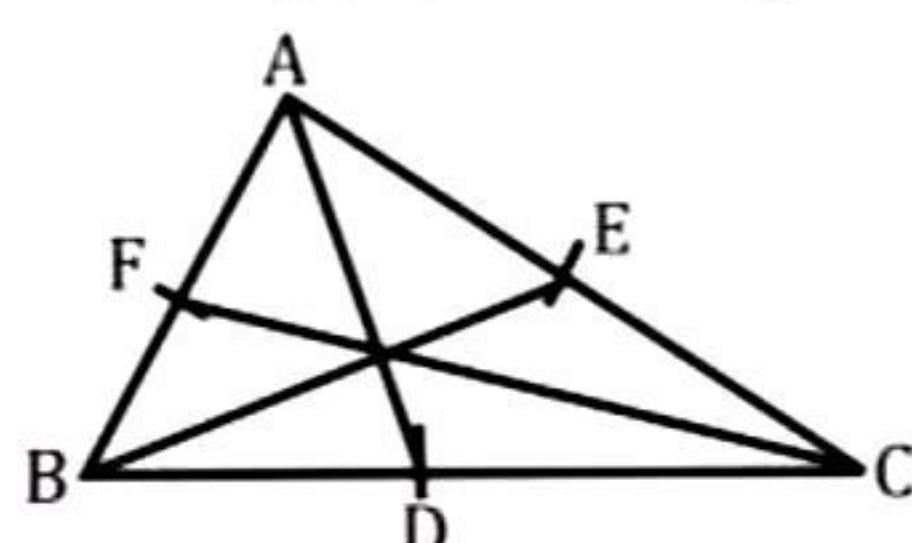


Fig.(ii)

3. Fold the triangle along with AD, press it and unfold it, along with BE, press it and unfold it, similarly fold the triangle along with CF, fold it press it and unfold it.
4. We get three creases AD, BE and CE These three creases are called medians and they meet or intersect or pass through one point say G.

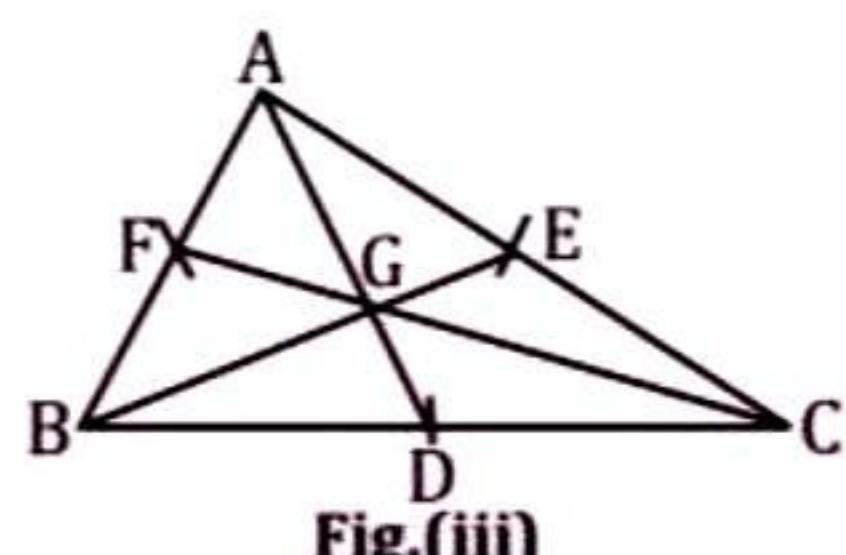


Fig.(iii)

5. This point G is known as the centroid of an  $\Delta ABC$ .

