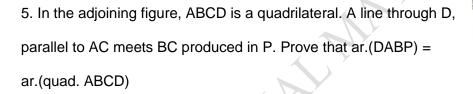
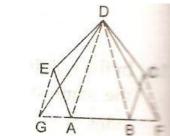
CBSE TEST PAPER-1

CLASSS _ IX

- 1. Prove that the median of a triangle divides it in two triangles of equal areas.
- 2. ABCD is a trapezium in which AB // CD. If AC and BD intersect at O, prove that $ar(\Delta BOC) = ar(\Delta AOD)$
- 3. AD is median on BC of \triangle ABC. E is mid point of AD. Prove that $ar(\triangle BED) = \frac{1}{4} ar(\triangle ABC)$
- 4. In adjoining figure, two parallelograms ABCD and AEFB are drawn on opposite sides of AB.

Prove that ar.(//gm ABCD) + ar.(//gm AEFB) = ar.(//gm EFCD)





D

- 6. The given figure shows a pentagon ABCDE. EG, drawn parallel to DA, meets BA produced at G, and CF, drawn parallel to DB meets AB produced at F. Show that ar.(pentagon ABCDE) = ar.(DDGF)
- 7. Prove that the triangles on same base and between same parallels are equal in area.
- 8. A point O inside a rectangle ABCD is joined to the vertices. Prove that the sum or areas of a pair of opposite triangles so formed is equal to the sum of areas of other pair of triangles.