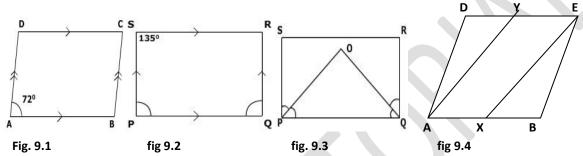
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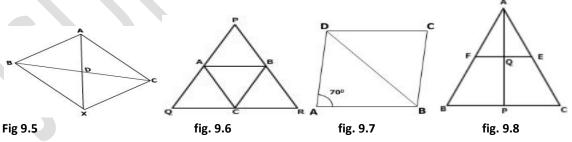
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QUADRILATERAL IX-1

- 1. Three angles of a quadrilateral measure 56°, 115° and 84°. Find the measure of the fourth angle.
- 2. The angles of a quadrilateral are in the ratio 2:4:5:7. Find the angles.
- 3. In the given figure 9.1, ABCD is a parallelogram in which <A = 72° . Calculate <B, <C and <D



- 4. In a parallelogram ABCD, if < A= 2x + 25 and < B = 3x-5. Find the value of x and the measure of each angle of the parallelogram.
- 5. ABCD is a parallelogram in which AB = 9.5 cm and its perimeter is 30 cm. Find the length of each side of the parallelogram.
- 6. In fig 9.2 In a parallelogram PQRS, <S = 135°. Determine the measure of <P and <Q.
- 7. ABCD is a parallelogram in which <DAB=80 °, and < DBC= 60°. Compute < CDB and <ADB.
- 8. In the given figure 9.3, PQRS is a parallelogram, in which the bisectors of <P and < Q intersect at a point O. Prove that < POQ = 90°
- 9. In fig 9.4, ABCD is a parallelogram and X and Yare the mid-points of the sides AB and DC, respectively. Show that the quadrilateral A X C Y is a parallelogram.
- 10. In a Δ ABC , D , E, Fare respectively the mid-points of BC , CA and AB. If the lengths of the sides AB , BC and CA are 7 cm , 8 cm and 9 cm respectively, find the perimeter of Δ DEF.
- 11. In fig. 9.5Δ ABC median AD is produced to X such that AD = DX. Prove that ABXC is parallelogram.



- 12. In fig 9.6. If B, C and A are respectively the mid-points of the sides QR, RP and PQ of an equilateral triangle PQR, prove that triangle ABC is also an equilateral triangle.
- 13. In the given figure, ABCD is a rhombus. If < A= 70 then find <CDB
- 14. In fig. 9.8, in triangle ABC, E and F are the mid-points of AC and AB respectively. The altitude AP to BC intersects EF at Q. Prove that AQ = QP.
- 15. M ,N and P are the mid-points of AB ,AC and BC respectively. If MN = 3cm, NP= 3.5cm and MP =2.5cm, calculate BC, AB and AC.

