Concept_Grade-9_Triangles
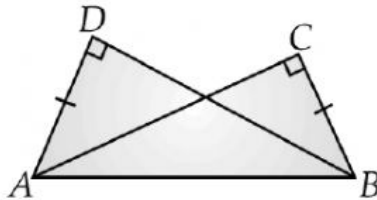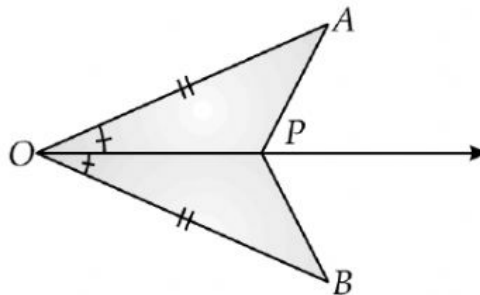
Congruency Criteria

1. In the figure, if AB = DC, ∠ABD = ∠CDB, which congruence rule would you apply to prove ΔABD ≅ ΔCDB?

2. In the figure below, it is given that ΔABD ≅ ΔBAC. What criteria is used to prove that the triangles are congruent ?
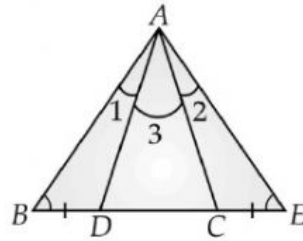

3. Given ΔOAP≅ ΔOBP in the figure below. Prove the criteria by which the triangles are congruent.

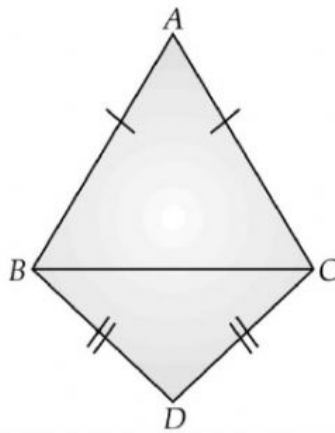4. In the figure below, the diagonal AC of quadrilateral ABCD bisects ∠BAD and ∠BCD. Prove that BC = CD.
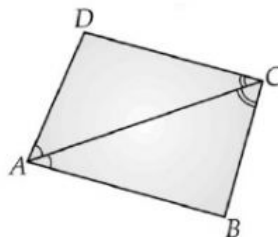
5. In figure ∠B = ∠E, BD = CE and ∠1 = ∠2. Show ΔABC ≅ ΔAED.

6. In the figure, ΔABC and ΔDBC are two isosceles triangles on the same base BC. Prove that ∠ABD = ∠ACD.

7. In the figure below, O is the mid-point of AB and CD, prove that AC = BD