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Concept_Grade-9_Triangles

Congruency Criteria

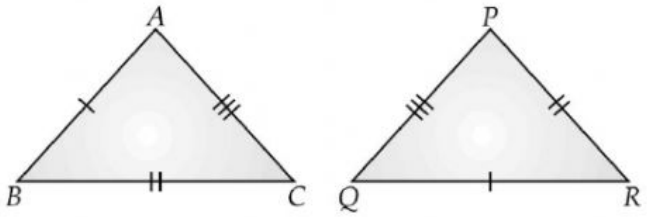
1. Write ASA congruence rule for two triangles.

2. In ΔABC and ΔDEF, AB = DE, ∠A = ∠D. What will be the condition in which the two triangles will be congruent by SAS axiom?

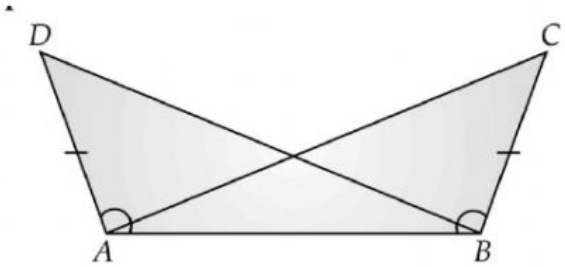
3. What do we call a triangle if the angles are in the ratio 5 : 3 : 7?

4. ΔABC ≅ ΔPQR, AB = PQ. Which statement has been followed in this?

5. In the given figure given below, if AB = QR , BC= RP and CA = PQ, then.



6. In given fig., AD = BC and ∠BAD = ∠ABC, then prove that ∠ACB = ∠BDA



7. ΔPQR≅ ΔABC, if PQ = 5 cm, ∠Q = 40° and ∠P 80°, calculate the value of ∠C.

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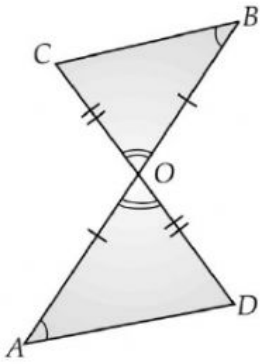
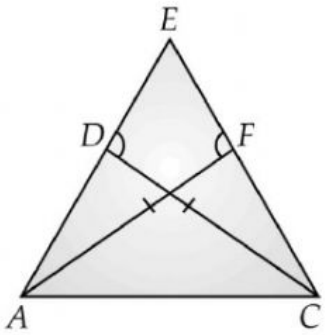
8. In the figure, OA = OB and OD = OC. Show that:
   (i) ΔAOD = ΔBOC,
   (ii) AD || BC



9. In the figure, if AF = CD and ∠AFE = ∠CDE, prove that EF = ED.



10. In the figure, BM and DN are both perpendicular to AC and BM = DN. Prove that AC bisects BD.