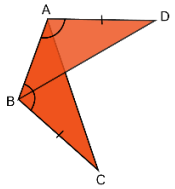
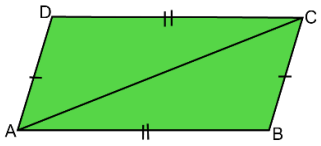
Test- Paper-Class – 9th- Triangles

1. In fig, if AD =BC and ∠BAD = ∠ ABC, then ∠ ACB is equal to



A. ∠ABD
B. ∠ BAD
C. ∠BAC
D. ∠BDA

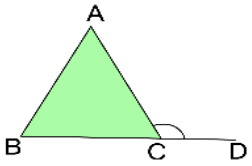
2. IN fig, if ABCD is a quadrilateral in which AD= CB, AB=CD, and ∠ D= ∠ B, then ∠CAB is equal to



A. ∠ ACD B. ∠CAD C. ∠ ACD D.∠ BAD

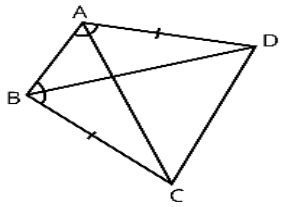
3. If △ABC is an isosceles triangle and ∠ B =650 , find ∠ A.
A. 600 B. 700 C. 500 D. none

4.If AB=AC and ∠ACD=1200 , find ∠A



A. 500 B. 600 C. 700 D. none

5. An angle is 140 more than its complement. Find its measure.
A. 42 B. 32 C. 52 D. 62
6. What is the sum of the angles of a quadrilateral?
A. 260 B.360 C.180 D. 900
7. ABCD is a quadrilateral in which AD = BC and $\angle DAB = \angle CBA$ Prove that
(i) $\Delta ABD \cong \Delta BAC$ **(ii)** BD = AC **(iii)** $\angle ABD = \angle BAC$



8. The angles of the triangle are in the ratio 2:3:7. Find the measure of each angle of the triangle.

9. In triangle ABC , ∠A – ∠B = 33 degree and ∠B – ∠C = 180 degree. Find the measure of each angle of the triangle.

10. The sum of two angles of a triangle is 116° and their difference is 24. Find the measure of each angle of the triangle.