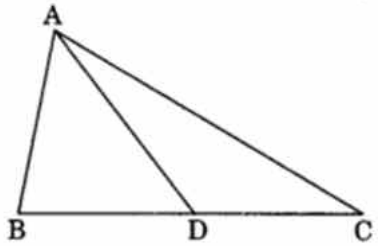
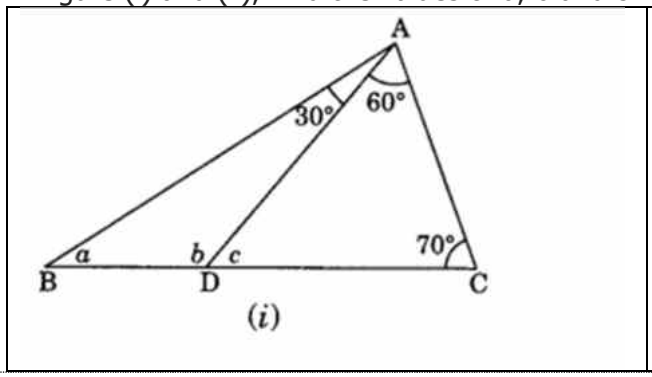
CLASS NOTES	
Class: VII	**Topic: TRIANGLES AND ITS PROPERTIES WORKSHEET**
Subject: MATHEMATICS	

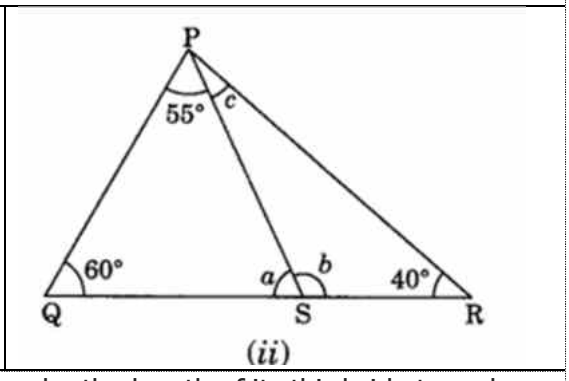
1. AD is the median of a ΔABC, prove that AB + BC + CA > 2AD



2. The length of the diagonals of a rhombus is 42 cm and 40 cm. Find the perimeter of the rhombus.
3. In figure (i) and (ii), Find the values of a, b and c.



(i)



(ii)

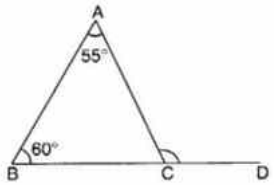
4. Two sides of a triangle are 4 cm and 7 cm. What can be the length of its third side to make the triangle
5. Fill in the blanks
   Every triangle has at least …….. acute angles.
   2. The longest side of a right angled triangle is called its …….. .
   3. Median is also called …….. in an equilateral triangle.
   4. The line segment joining a vertex of a triangle to the mid-point of its opposite side is called its …….. .
   5. Measures of each of the angles of an equilateral triangle is …….. .

Choose the correct answer (Q 6 to Q 12)

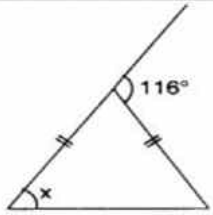
6. In the Pythagoras property, the triangle must be …….. .
   (a) acute angled
   (b) right angled
   (c) obtuse angled
   (d) none of these
7. A/an …….. connect a vertex of a triangle to the mid point of the opposite side.
   (a) altitude
   (b) median
   (c) vertex
   (d) none of these
8. In which case of the following lengths of sides of a triangle, is it possible to draw a triangle?
   (a) 3 cm, 4 cm, 7 cm
   (b) 2 cm, 3 cm, 7 cm
   (c) 3 cm, 4 cm, 5 cm

(d) 3 cm, 3 cm, 7 cm

9. In the following figure, the side BC of Δ ABC is extended up to the point D. If ∠A = 55° and ∠B = 60°, then the measure of ∠ACD is

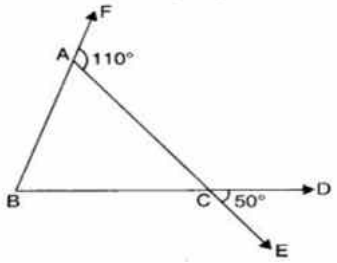


(a) 120°
(b) 110°
(c) 115°
(d) 125°



10. Find angle x in the following figure:
(a) 58°
(b) 59°
(c) 57°
(d) 56°

11. In the following figure, find ∠ B.



(a) 30°
(b) 45°
(c) 40°
(d) 60°