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Time 1 h

Triangle & its Properties VII

MM 20

**1 Mark Each**

1. In figure 1 if  $\angle B = 50^\circ$ ,  $\angle C = 45^\circ$ . Find  $\angle DAC$
2. In figure 1 if  $\angle B = 40^\circ$ ,  $\angle DAC = 100^\circ$   
Find  $\angle C$ .

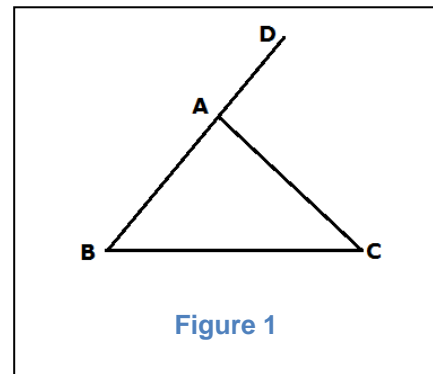


Figure 1

3. In figure 2 if  $\angle B = 50^\circ$ ,  $\angle C = 45^\circ$ . Find  $\angle A$

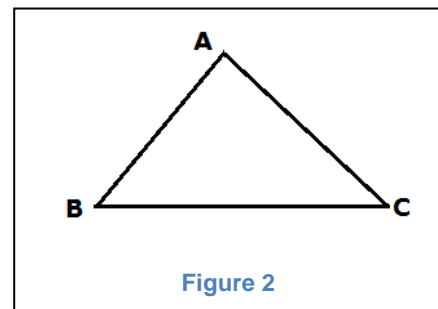


Figure 2

**2 Marks Each**

4. In figure 1 if  $\angle B = 60^\circ$ ,  $\angle DAC = 130^\circ$ . Find  $\angle C$  and  $\angle A$
5. In figure 3 if  $\angle DAE = 80^\circ$ ,  $\angle B = 45^\circ$ .  
Find  $\angle C$  and  $\angle A$
6. In figure 3 if  $\angle DAE = 90^\circ$ ,  $\angle B$  and  $\angle C$   
are equal. Find  $\angle C$ ,  $\angle B$  and  $\angle A$
7. Is it possible to have a triangle with sides  
3 cm, 4 cm and 5 cm?

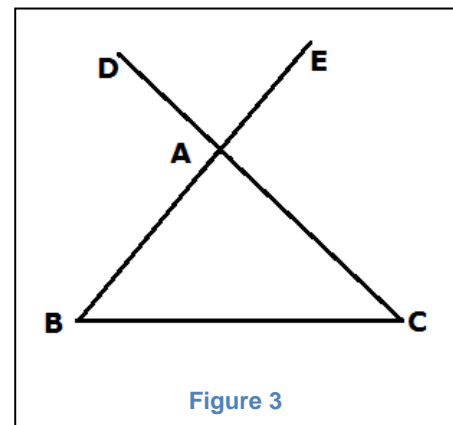


Figure 3



**3 Marks Each**

8. AM is median of  $\Delta ABC$ . Show  $AB + BC + CA = 2 AM$
9. ABCD is a quadrilateral whose diagonals are joined. Show that  
 $AB + BC + CD + DA > AC + BD$
10. A tree is broken at a height of 5 m from the ground and its top touches the ground at a distance of 12 m from the base of the tree. Find the original height of tree.

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