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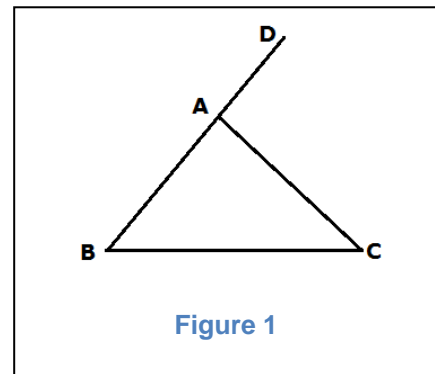
Time 1 h

Triangle & its Properties VII

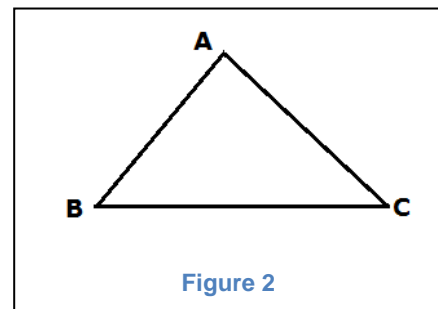
MM 20

1 Mark Each

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

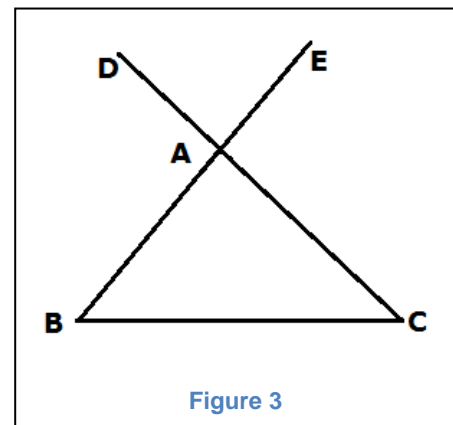


- In figure 2 if $\angle B = 50^\circ$, $\angle C = 45^\circ$. Find $\angle A$



2 Marks Each

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





3 Marks Each

8. AM is median of ΔABC . 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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