

CH-15 TRIANGLES EXERCISE - 15 (A)

1. i) Yes ii) No iii) NO iv) Yes

2. Ans: No. of sides = 3

Sum of all the angles = 180°

$$\begin{aligned}\text{Measure of each angle} &= 180^\circ \div 3 \\ &= 60^\circ\end{aligned}$$

60° is the measure of each angle.

3. Ans: Measure of each angle = $\angle A = 45^\circ$, $\angle B = 75^\circ$, $\angle C = x$

Sum of all the angles = 180°

$$\Rightarrow 45^\circ + 75^\circ + x = 180^\circ$$

$$\Rightarrow 120^\circ + x = 180^\circ$$

$$\Rightarrow x = 180^\circ - 120^\circ$$

$$\Rightarrow x = 60^\circ$$

$$\angle C = 60^\circ$$