



Properties of Triangles Ex 15.2 Q1

Answer :

Let the third angle be x .

Sum of all the three angles of a triangle $= 180^\circ$

$$\therefore 105^\circ + 30^\circ + x = 180^\circ$$

$$\text{or, } x = 180^\circ - 135^\circ$$

$$\therefore x = 45^\circ$$

The third angle is 45° .

Properties of Triangles Ex 15.2 Q2

Answer :

Let the other two angles be x .

Sum of all the three angles of a triangle $= 180^\circ$

$$\text{i.e. } 130^\circ + x + x = 180^\circ$$

$$\Rightarrow 2x = 180^\circ - 130^\circ$$

$$\Rightarrow 2x = 50^\circ$$

$$\Rightarrow x = \frac{50^\circ}{2}$$

$$\Rightarrow x = 25^\circ$$

Therefore, the other two angles are 25° each.

Properties of Triangles Ex 15.2 Q3

Answer :

Let each angle of the triangle be x .

Sum of all the three angles of a triangle $= 180^\circ$

$$\text{i.e. } x + x + x = 180^\circ$$

$$\Rightarrow 3x = 180^\circ$$

$$\Rightarrow x = \frac{180^\circ}{3}$$

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

Therefore, each angle is equal to 60° .

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