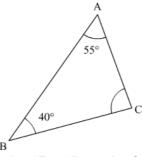


Triangles and Its Angles Ex 9.1 Q1 **Answer**:



 $\angle A + \angle B + \angle C = 180^{\circ}$ [The sum of three angles of a triangle is 180° .]

$$\Rightarrow 55\degree + 40\degree + \angle C = 180\degree$$

$$\Rightarrow 95\degree + \angle C = 180\degree$$

$$\Rightarrow \angle C = 180^{\circ} - 95^{\circ}$$

$$\Rightarrow \angle C = 85^{\circ}$$

Triangles and Its Angles Ex 9.1 Q2

Answer:

Let the angles of the given triangle be of x^0 , $2x^0$ and $3x^0$. Then,

 \therefore x+2x+3x=180 The sum of three angles of a triangle is 180°⇒6x=180⇒x=30 Hence, the angles of the triangle are 30°, 60° and 90°.

Triangles and Its Angles Ex 9.1 Q3

Answer:

Given angles are $(x-40)^{\circ}$, $(x-20)^{\circ}$ and $(\frac{1}{2}x-10)^{\circ}$.

∴ x-40+x-20+12x-10=180⇒52x=180+70⇒52x=250⇒x=250×25⇒x=100 Hence, the value of x is 100°.

********** END ********