

CHAPTER-7  
TRIANGLES

**1 Exercise 7.1**

Q1. If  $AB = QR$ ,  $BC = PR$  and  $CA = PQ$ , then

1.  $\triangle ABC \cong \triangle PQR$
2.  $\triangle CBA \cong \triangle PRQ$
3.  $\triangle BAC \cong \triangle RPQ$
4.  $\triangle PQR \cong \triangle BCA$

**Solution:** According to the question,

$$AB = QR \quad (1)$$

$$BC = PR \quad (2)$$

$$CA = PQ \quad (3)$$

Since,

$$AB = QR \quad (4)$$

$$BC = PR \quad (5)$$

$$CA = PQ \quad (6)$$

This follows SSS criteria and we can say that,  $A$  corresponds to  $Q$ ,  $B$  corresponds to  $R$ ,  $C$  corresponds to  $P$  as shown in Figure:1.

Hence, option 2 is the correct answer.

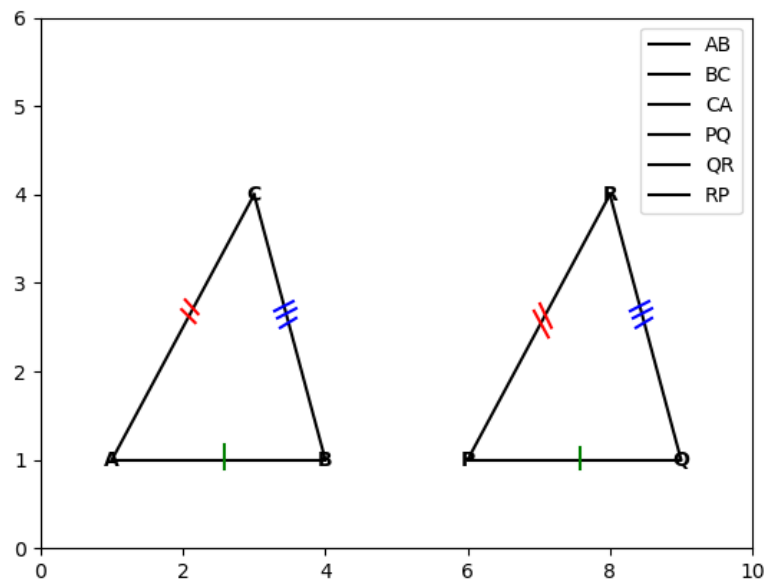


Figure 1: