

Mathematics

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(Chapter – 7) (Triangles)(Exemplar Problems)
(Class – IX)

Exercise 7.1

Write the correct answer in each of the following:

Question 2:

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

(A) $\triangle ABC \cong \triangle PQR$

(B) $\triangle CBA \cong \triangle PRQ$

(C) $\triangle BAC \cong \triangle RPQ$

(D) $\triangle PQR \cong \triangle BCA$

Answer 2:

(B) $\triangle CBA \cong \triangle PRQ$

Solution:

$AB = QR$ & $BC = PR \Rightarrow \angle B = \angle R$... (i)

$BC = PR$ & $CA = PQ \Rightarrow \angle C = \angle P$... (ii)

$CA = PQ$ & $AB = QR \Rightarrow \angle A = \angle Q$... (iii)

From equations (i), (ii) and (iii), we get $\triangle CBA \cong \triangle PRQ$.

Hence, the option (B) is correct.

