

Congruence RS Aggarwal Class 7

Maths Solutions

[Congruence Of Triangles Class 7](#). The chapter 7 solutions for class 7 maths given here are very easily understandable so that students do not face any difficulties and have a proper understanding of the solutions. These can also help the students to have an in-depth understanding of the concepts and develop a deeper interest in the concepts. The class 7 congruence of triangles solutions given here are in easy steps to help the students understand the respective solutions properly.

Q9

Answer :

Given :

Triangles ABC and DCB are right angled at A and D , respectively.

$$AC = DB$$

To prove : $\triangle ABC \cong \triangle DCB$

In $\triangle ABC$ and $\triangle DCB$:

$$\angle CAB = \angle BDC \quad (90^\circ \text{ each})$$

$$BC = BC \quad (\text{common})$$

$$AC = DB \quad (\text{given})$$

By R.H.S. congruence property :

$$\triangle ABC \cong \triangle DCB$$

Q1

Answer :

We have to state the correspondence between the vertices, sides and angles of the following pairs of congruent triangles.

(i) $\triangle ABC \cong \triangle EFD$

Correspondence between vertices :

$$A \leftrightarrow E, B \leftrightarrow F, C \leftrightarrow D$$

Correspondence between sides :

$$AB = EF, BC = FD, CA = DE$$

Correspondence between angles :

$$\angle A = \angle E, \angle B = \angle F, \angle C = \angle D$$

(ii) $\triangle CAB \cong \triangle QRP$

Correspondence between vertices :

$$C \leftrightarrow Q, A \leftrightarrow R, B \leftrightarrow P$$

Correspondence between sides :

$$CA = QR, AB = RP, BC = PQ$$

Correspondence between angles :

$$\angle C = \angle Q, \angle A = \angle R, \angle B = \angle P$$

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