Congruence RS Aggarwal Class 7 Maths Solutions

<u>Congruence Of Triangles Class 7</u>. 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.

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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 (90° each)

BC = BC (common)

AC = DB (given)

By R. H. S. congruence property:
\triangle ABC \cong \triangle DCB
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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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