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 $\triangle DCB$:
$\angle CAB = \angle BDC$ $(90^\circ$ each$)$
$BC = BC$ (common)
$AC = DB$ (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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