Congruency of Triangles: Worksheet -4

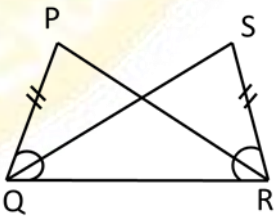
1. Which of the following pairs of triangles are congruent?

(i) ΔABC, AB = 2 cm, AC = 4 cm, $\angle A = 40^0$; ΔXYZ, XZ = 2, YZ = 4, $\angle Z = 40^0$

(ii) ΔPQR, PQ = 5 cm, PR = 6 cm, $\angle P = 55^0$; ΔDEF, DE = 6cm, EF = 5 cm, $\angle D = 55^0$

2. In Δ PQR and Δ SQR $\overline{PQ} = \overline{SR}$ and $\angle PQR = \angle QRS$.

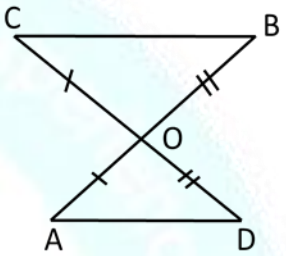
Show that ΔPQR $\cong \Delta$ SQR.



3. In the adjoining figure $\overline{AB}$ and $\overline{CD}$ intersect at 'O'.

so that AO = OC and OB = OD. Show that

$\Delta OAD \cong \Delta OBC$ and hence show that $\overline{AD} = \overline{BC}$.



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