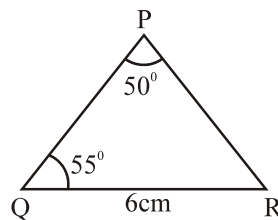
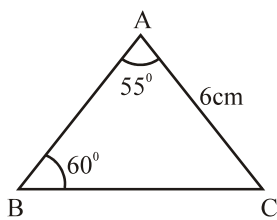


Chapter—7

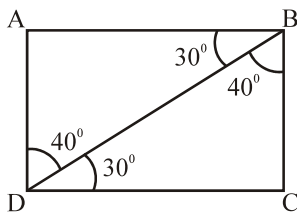
Congruence of Triangles

1. In each of the given of triangle applying only ASA congruence criterion, determine which triangle are congruent. Also write the congruent triangles in symbolic form.

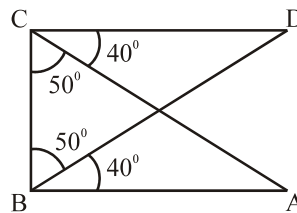
(a)



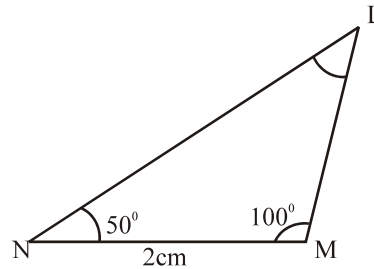
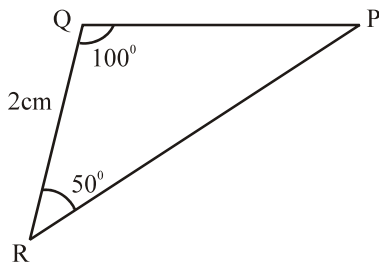
(b)



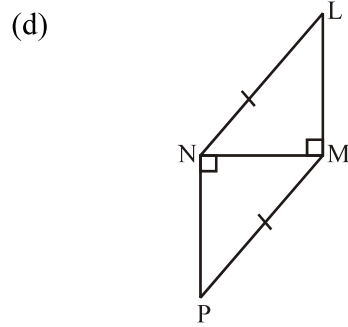
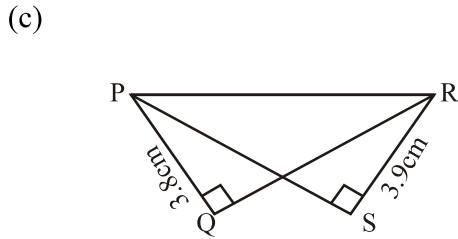
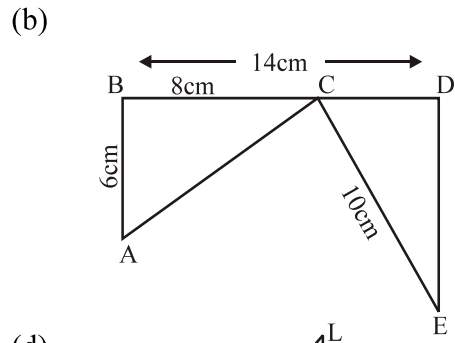
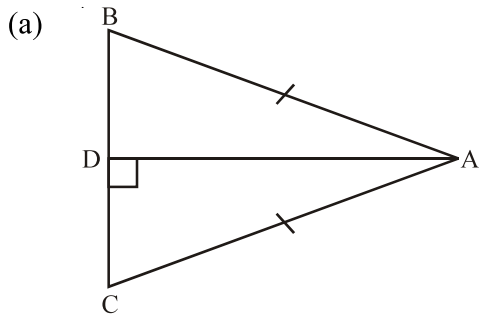
(c)



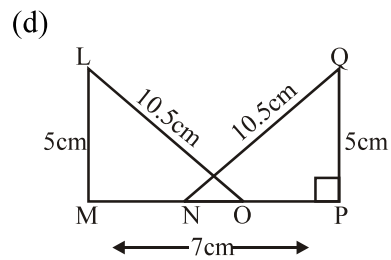
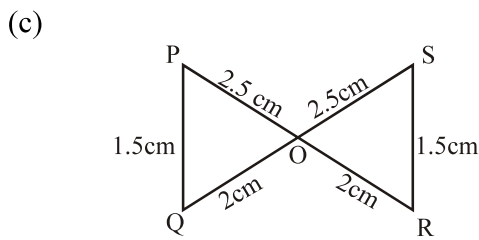
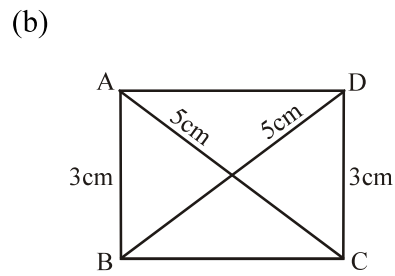
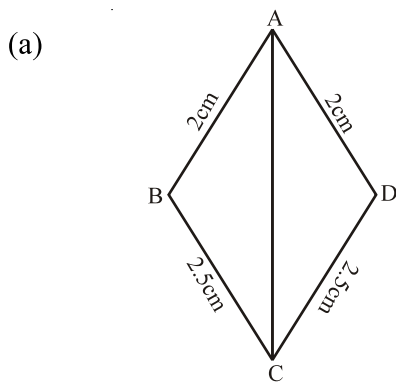
(d)



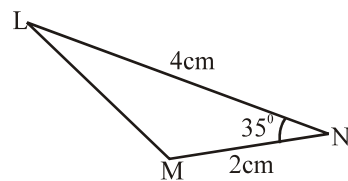
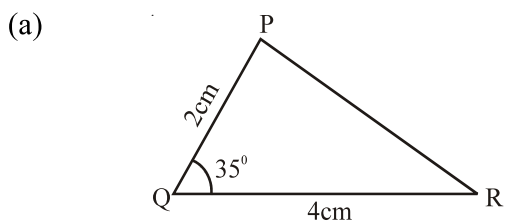
2. In each of the given pair of triangle applying only RHS congruence criterion, determine which pairs of triangles are congruent. Also write the congruent triangles in symbolic form.

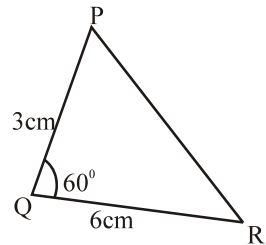
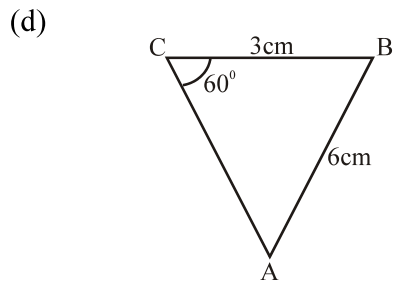
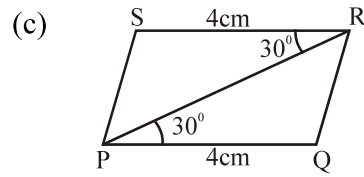
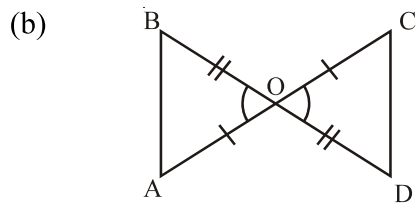


3. In each of the given pair of triangles applying only SSS congruence criterion, determine which pairs of triangles are congruent. Also write the congruent triangles in symbolic form.

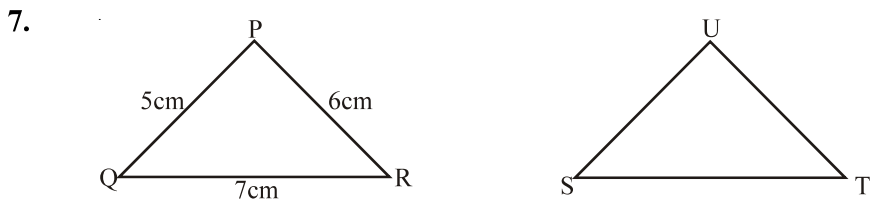


4. In each of the given pair of triangles applying only SAS congruence criterion, determine which triangles are congruent. Also write the congruent triangles in symbolic form.





5. If $\triangle PQR$ and $\triangle LMN$ are congruent under the correspondence $QPR \leftrightarrow LMN$ then fill up the blanks :
- (i) $\angle R = \dots\dots\dots$ (iv) $\angle QR = \dots\dots\dots$
 (ii) $\angle P = \dots\dots\dots$ (v) $\angle QP = \dots\dots\dots$
 (iii) $\angle Q = \dots\dots\dots$ (vi) $\angle RP = \dots\dots\dots$
6. Triangles DEF and LMN are both isosceles with $DE = DF$ and $LM = LN$. If $DE = LM$ and $EF = MN$ then, are the two triangles congruent? Which condition do you use?
 If $\angle E = 50^\circ$, what is the measure of $\angle N$?



If $\triangle PQR$ is congruent to $\triangle STU$ then what is the length of TU?

8. State whether the given statements are True or False.
- (i) If three corresponding angles of two triangles are equal then triangles are congruent.
 (ii) The congruent figure super impose each other completely.
 (iii) The top and bottom faces of a kaleidoscope are congruent.
 (iv) Two figure are congruent, if both have the same shape.