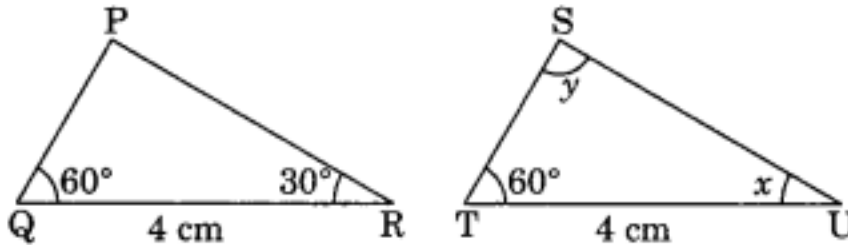
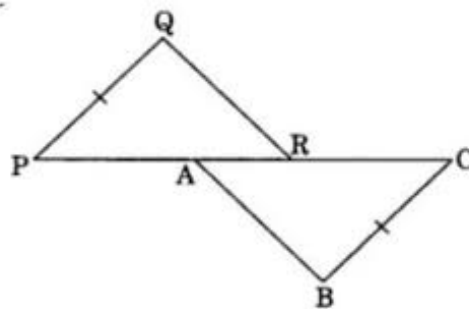


MATHEMATICS
CLASS – VII
Chapter- 07
Congruence of Triangles

- Can two equilateral triangles always be congruent? give reasons.
- In the given congruent triangles under ASA, find the value of x and y , $\Delta PQR = \Delta STU$.



- What is the angle included between the sides PN and PM of ΔMNP ?
- If $\Delta DEF \cong \Delta BCA$, write the part of ΔBCA that corresponds to –
 (a) $\angle E$ (b) EF (c) $\angle F$ (d) DF
- Without drawing the figures of the triangles, write all six pairs of equal measures in each of the following pairs of congruent triangles
 (a) $\Delta ABC \cong \Delta DEF$ (b) $\Delta XYZ \cong \Delta MLN$
- By applying ASA congruence rule it is to be established that $\Delta ABC \cong \Delta QRP$ and it is given that $BC = RP$, what additional information is needed to establish the congruence?
- ABC is an isosceles triangle with $AB=AC$ and D is the mid-point of base BC . State three pairs of equal parts in triangles ABD and ACD , is $\Delta ABD \cong \Delta ACD$? If so, why?
- In the figure $PQ=CB$, $PA=CR$, $\angle P = \angle C$ is $\Delta PQR \cong \Delta BCA$, if yes state the criterion of congruence.



- In the given figure, BD and CE are altitudes of ΔABC such that $BD=CE$, then by which congruence rule $\Delta CBD \cong \Delta BCE$?

