CLASS VII

WORKSHEET NO.8

SUBJECT: MATHEMATICS

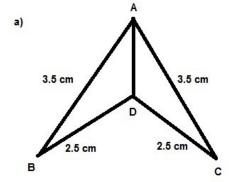
Chapter 7 : Congruence of triangles

Q.1. If triangle ABC and triangle DEF are congruent under the correspondence: ABC $\leftarrow \rightarrow$ FED

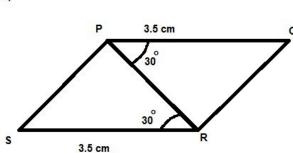
Write the parts of triangle ABC that corresponds to:

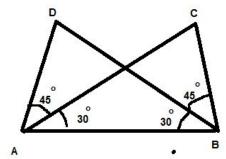
- a) DE
- b) Angle E
- c) FD

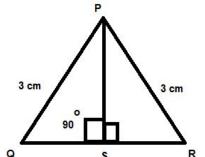
Q.2. Which congruence criterion will you use in the following. Write the congruence in symbolic form:









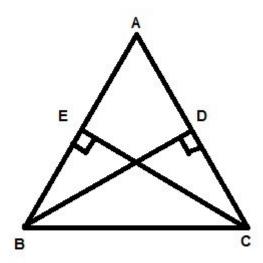


Downloaded from www.studiestoday.com

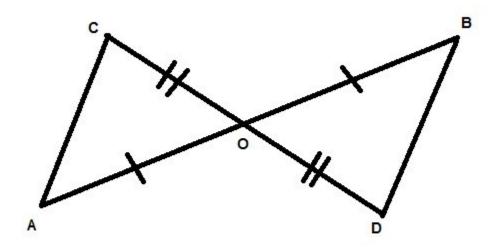
Q.3. In the given figure BD and CE are the altitudes of triangle ABC such that BD = CE

- a) Prove that $\triangle CBD \cong \triangle BCE$
- b) Is angle DCB = angle EBC

Give reasons



Q.4. In the given figure AB and CD bisect each other at O. Prove that the $\Delta AOC \cong \Delta BOD$

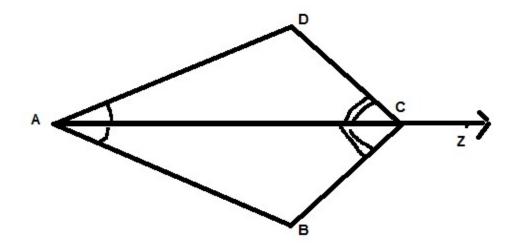


Downloaded from www.studiestoday.com

Q.5. In the given figure ray AZ bisects angle BAD and angle DCB:

- a) Prove that the $\triangle BAC \cong \triangle DAC$
- b) Is AB = AD?
- c) Is CD = CB?

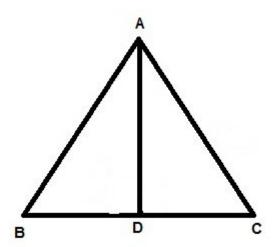
Give reasons



Q.6. In the given figure AB = AC and D is the midpoint of BC.

- a) Prove that $\triangle ADB \cong \triangle ADC$
- b) Is angle B = angle C

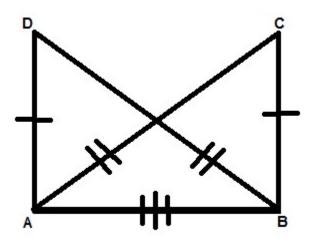
Give reasons.



Downloaded from www.studiestoday.com

Q.7. If AC = BD, AD = BC which of the following statements is meaningfully written

- a) $\triangle ABC \cong \triangle ABD$
- b) $\triangle ABC \cong \triangle BAD$



Q.8. By applying given congruence rule write what additional information is needed to establish congruence

- a) $\Delta PQR \cong \Delta FAD$ by SAS congruence rule, PQ = FE and RP = DF
- b) $\triangle ABC \cong \triangle RPQ$ by RHS congruence rule, angle B = angle P = 90° and AB = RP