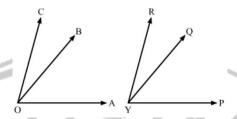
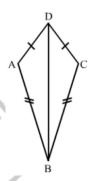
Subject: - Mathematics PRACTICE PAPER

CBSE-7th

Topic: - Congruence of Triangles

1. In Fig. $\angle AOC \cong \angle PYR$ and $\angle BOC \cong \angle QYR$. Name the angle which is congruent to $\angle AOB$.





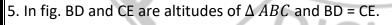
- 2. In Fig. AD = DC and AB = BC
- a) Is $\triangle ABD \cong \triangle CBD$?
- b) State the three parts of matching pairs you have used to answer it.
- 3. ABC and DBC are both isosceles triangles on a common base BC such that A and D lie on the same side of BC. Are triangles ADB and ADC congruent? Which condition do you see? If \angle $BAC = 40^{\circ}$ and \angle $BDC = 100^{\circ}$, then find \angle ADB.
- 4. In fig. line segments AB and CD bisect each other at O. Which of the following statement is true?



b)
$$\triangle AOC \cong \triangle BOD$$

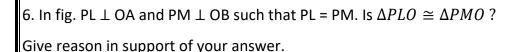
c)
$$\triangle AOC \cong \triangle ODB$$

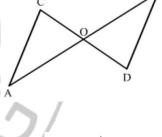
State the three parts of matching pairs you have used to answer it.

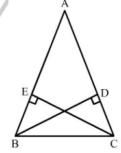


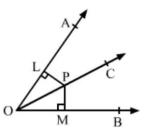
a) Is
$$\triangle BCD \cong \triangle CBE$$
?

b) State the three parts of matching pairs you have used to answer it.



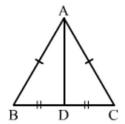




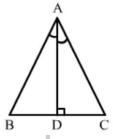


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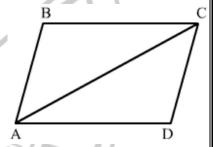
- 7. In fig. AB = AC and BD = DC. Prove that $\Delta ADB \cong \Delta ADC$ and hence show that: -
- a) $\angle ADB = \angle ADC = 90^{\circ}$
- b) $\angle BAD = \angle CAD$.



8. In fig. ABC is a triangle in which AD is the bisector of \angle A. If AD \bot BC , show that \triangle ABC is isosceles.



- 9. In fig. $AB \parallel DC$ and AB = DC
- a) Is $\triangle ACD \cong \triangle CAB$
- b) State the three pairs of matching parts used to answer it.
- c) Which angle is equal to $\angle CAD$?
- d) Does it follow from c) point that $AD \parallel BC$?



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