

3) In  $\triangle AOB$

$$\angle B < \angle A$$

$$\Rightarrow AO < BO \text{ --- (i)}$$

In  $\triangle ODC$

$$\angle C < \angle D$$

$$\textcircled{OD} < \textcircled{OC} \text{ --- (ii)}$$

Adding (i) & (ii)

$$AO + DO < BO + OC$$

$$AD < BC$$

4) In  $\triangle ABC$

$$BC > AB$$

$$\angle B > \angle C \text{ --- (i)}$$

In  $\triangle ADC$

$$CD > AD$$

