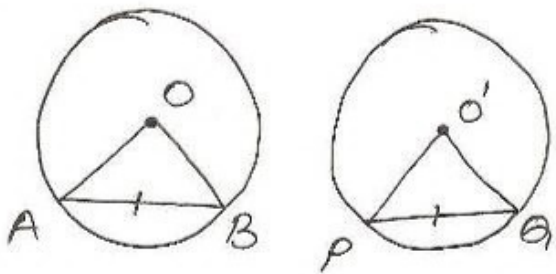


①



to prove $\angle AOB = \angle PO'A$

proof - In $\triangle AOB$ and $\triangle PO'a$

$$OA = O'P \text{ [radii of cong.]}$$

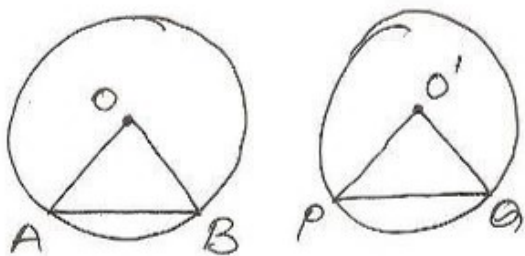
$$OB = O'a \text{ [circles]}$$

$$AB = PA \text{ [given]}$$

$\therefore \triangle AOB \cong \triangle PO'a$ by
SSS prop.

$$\angle AOB = \angle PO'a \text{ (cpct)}$$

②



to prove $AB = PA$

proof In $\triangle AOB$ and $\triangle PO'a$

$$OA = O'P \text{ (radii of cong.)}$$

$$\angle AOB = \angle PO'a \text{ (given)}$$

$$OB = O'a$$

$\therefore \triangle AOB \cong \triangle PO'a$ by
SAS prop

$$AB = PA \text{ (cpct)}$$