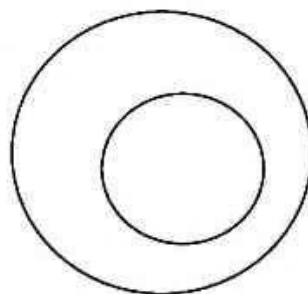
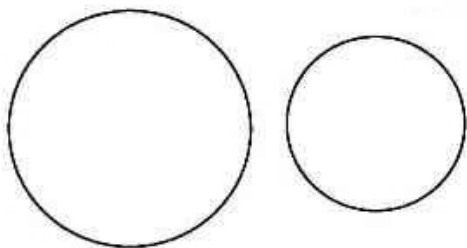
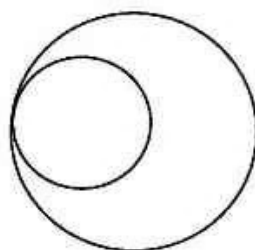
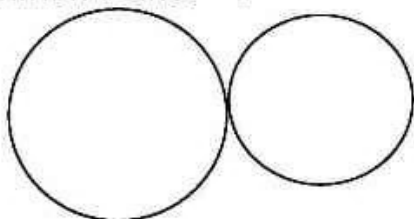


NCERT Maths Solutions by Dev Anoop (Bathinda) Ex 10.3

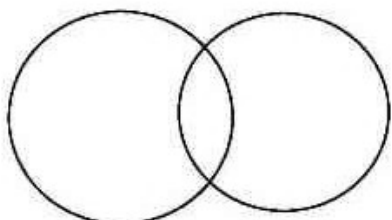
1. Common Points - 0



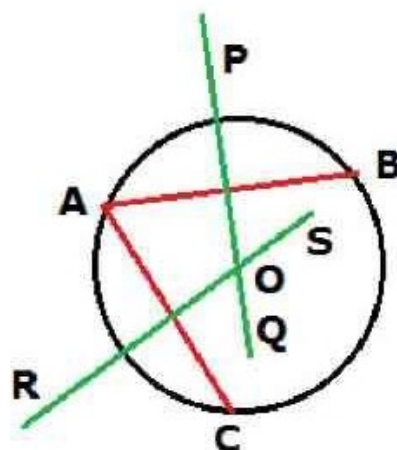
Common Points - 1



Common Points - 1



2. Draw 2 chords AB and AC. Draw PQ and RS perpendicular bisectors of AB and AC respectively. Let perpendicular bisectors intersect each other at O. Then O is centre of circle.



3. To prove - O, C lie on perpendicular bisector of A
 Construction - Join OM. CM where M is midpoint of AB
 Proof - OM joins centre of circle to midpoint of chord.

$$\therefore OM \perp AB.$$

$$\Rightarrow \angle 1 = 90^\circ$$

Similarly $\angle 2 = 90^\circ$

$$\angle 1 + \angle 2 = 180^\circ$$

$$\angle OMC = 180^\circ$$

Points O, M, C are collinear. O, C lie on perpendicular of AB.

