## CIRCLES

## **EXERCISE 10.3**

Q.1. Draw different pairs of circles. How many points does each pair have in common? What is the maximum number of common points?



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 $\begin{array}{ll} \therefore & \Delta AOC \cong \Delta BOC & (SAS \ congruency) \\ \Rightarrow & AC = BC \ and \ \angle ACO = \ \angle BCO & ...(i) \ (CPCT) \\ \Rightarrow \ \angle ACO + \ \angle BCO = 180^{\circ} & ...(ii) \ (Linear \ pair) \end{array}$ 

 $\Rightarrow \angle ACO = \angle BCO = 90^{\circ}$  (From (i) and (ii)) Hence, OO' lie on the perpendicular bisector of AB wave. timeriacadomy.com

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