## Topic 4 Geometrical Construction


(6) Draw an arc of 20 mm radius touching two sides of angles (1) 90 (2) 60 (3) 120

(7) Draw common tangent to equal circle of 35 mm radius and centre distances of both is 100 mm (a) Externally \& (b) Internally


EXTERIOR TANGENT TO TWO EQUAL CIRCLES


INTERIOR TANGENT TO TWO EQUAL
(8) Draw a parallel line passing through the point ' $p$ ' to a given Line $A B 60 \mathrm{~mm}$ Long.

(9) Draw a circle of radius 30 mm . Draw tangent to a circle at (1) any point $A$ on it (2) from point $P$ outside 80 mm away from centre.

(10) Draw a circle passing through three nonlinear points (O1, O2, O3) OR To find the centre of a given arc $\mathrm{O} 1, \mathrm{O}, \mathrm{O} 3$.


FIG. : 4.12


FIG. 4.12 A : ARC THROUGH THREE NONLINEAR POINTS AND CENTRE OF AN ARC

