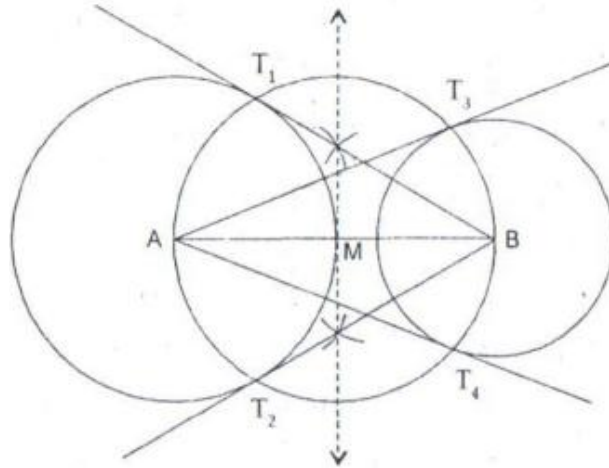




Exercise 13B

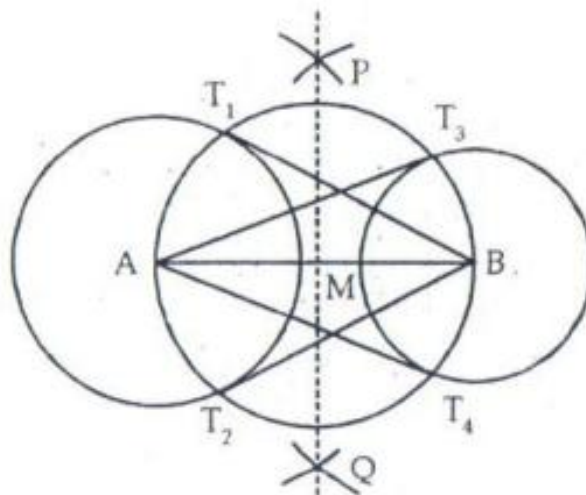
Question 5:



Steps of construction:

- (i) A line segment $AB = 8.5$ cm is drawn.
 - (ii) Draw a right bisector of AB which meets AB at M .
 - (iii) With M as centre AM as radius a circle is drawn intersecting the given circles at T_1, T_2, T_3 and T_4 .
 - (iv) Join AT_3, AT_4 and BT_1, BT_2 .
- Thus AT_3, AT_4, BT_1, BT_2 are the required tangents.

Question 6:



Steps of construction:

- (i) Draw a line segment $AB = 7$ cm.
- (ii) Taking A as centre and radius 3 cm, a circle is drawn.
- (iii) With centre B and radius 2.5 cm, another circle is drawn.
- (iv) With centre A and radius more than $\frac{1}{2} AB$, arcs are drawn on both sides of AB .
- (v) With centre B and the same radius, [as in step (iv)] arcs are drawn on both sides of AB intersecting previous arcs at P and Q .
- (vi) Join PQ which meets AB at M .
- (vii) With centre M and radius AM , a circle is drawn which intersects circle with centre A at T_1 and T_2 and the circle with centre B at T_3 and T_4 .

(viii) Join AT_3 , AT_4 , BT_1 and BT_2

Thus, AT_3 , AT_4 , BT_1 , BT_2 are the required tangents.

***** END *****