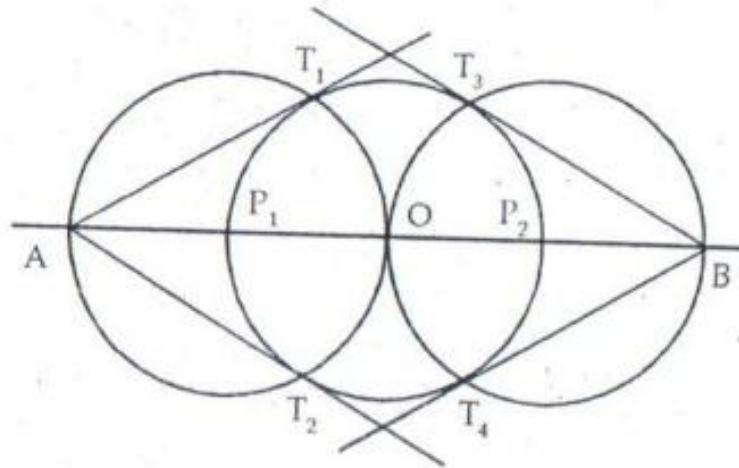




Exercise 13B

Question 3:



Steps of construction:

Step 1: Draw a circle with centre O and radius 3.5 cm

Step 2: the diameter P_1P_2 is extended to the points A and B such that $AO = OB = 7$ cm

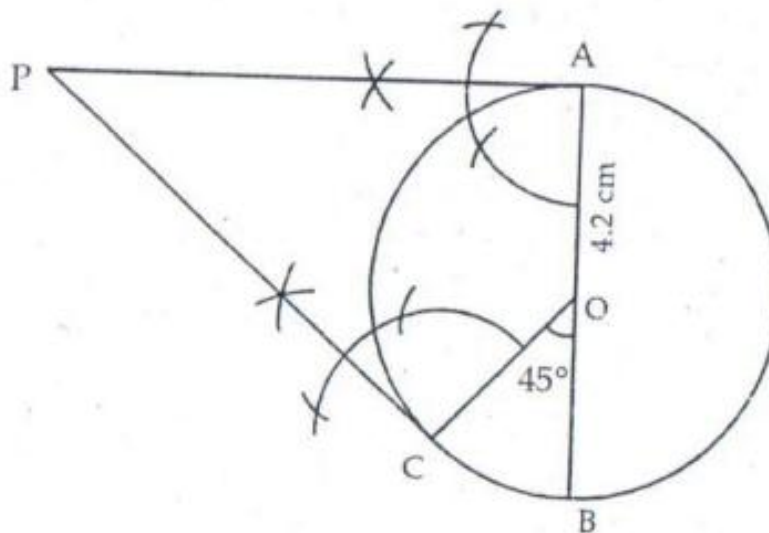
Step 3: With centre P_1 and radius 3.5 cm draw a circle cutting the first circle at T_1 and T_2

Step 4: join AT_1 and AT_2

Step 5: With centre P_2 and radius 3.5 cm draw another circle cutting the first circle at T_3 and T_4

Step 6: Join BT_3 and BT_4 . Thus AT_1 , AT_2 and BT_3 , BT_4 are the required tangents to the given circle from A and B.

Question 4:



Steps of construction:

(i) A circle of radius 4.2 cm at centre O is drawn.

(ii) A diameter AB is drawn.

(iii) With OB as base, an angle BOC of 45° is drawn.

(iv) At A, a line perpendicular to OA is drawn.

- (v) At C, a line perpendicular to OC is drawn.
(vi) These lines intersect each other at P.
PA and PC are the required tangents.

***** END *****