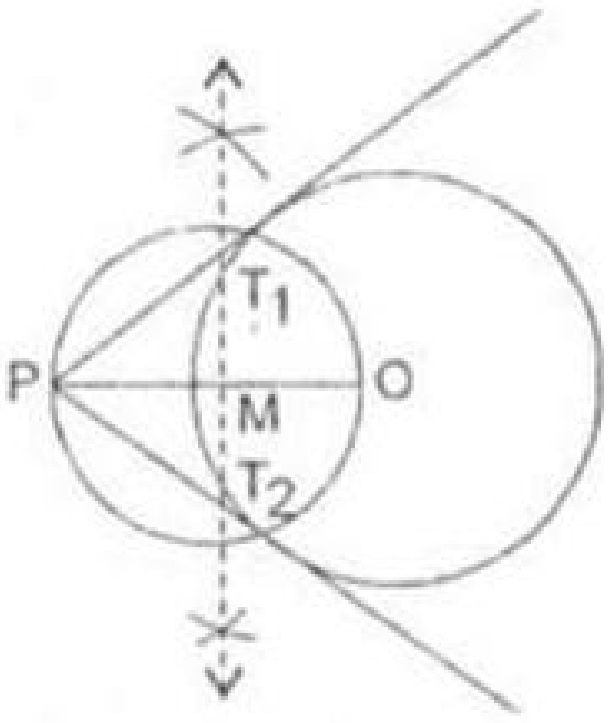
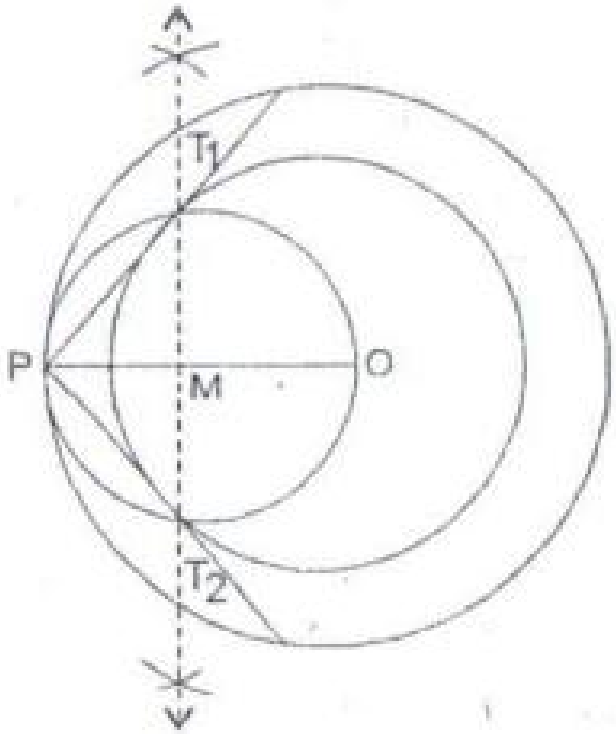
Exercise 13B

Question 1:



Steps of construction:
Step 1: Draw a circle of radius 5 cm with centre O.
Step 2: A point P at a distance of 8cm from O is taken.
Step 3: A right bisector of OP meeting OP at M is drawn.
Step 4: With centre M radius OM a circle is drawn intersecting the previous circle at T_1 and T_2
Step 5: Join PT_1 and PT_2
PT_1 and PT_2 and the required tangents. Measuring PT_1 and PT_2
We find, $PT_1 = PT_2 = 6.2$ cm

Question 2:



Steps of construction:
Step 1: Two concentric circles with centre O and radii 4 cm and 6 cm are drawn.
Step 2: A point P is taken on outer circle and O, P are joined.
Step 3: A right bisector of OP is drawn bisecting OP at M.
Step 4: With centre M and radius OM a circle is drawn cutting the inner circle at T_1 and T_2
Step 5: Join PT_1 and PT_2
PT_1 and PT_2 are the required tangents. Further $PT_1 = PT_2 = 4.8$ cm

********** END **********