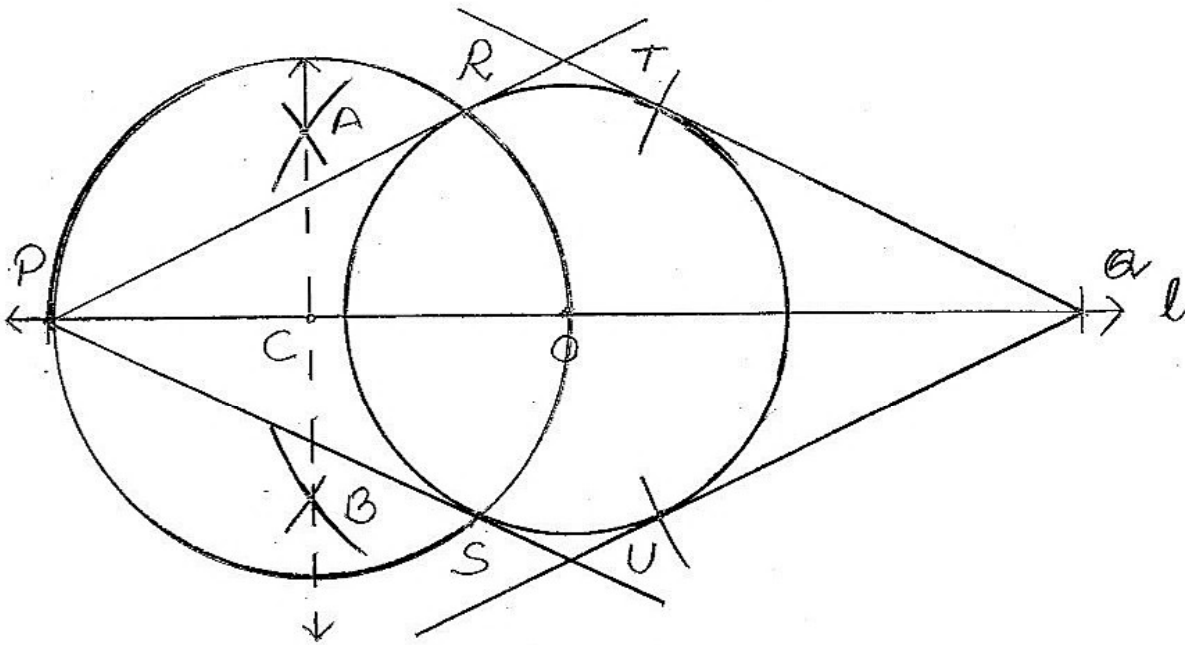


NCERT Solutions by Dev Anoop (Bathinda)  
 Constructions Ex. 11.2, Q. 3



Steps

- ① draw a circle of radius 3cm
- ② draw line  $l$  passing through  $O$  and draw  $OP = OQ = 7\text{cm}$
- ③ draw  $AB$  perpendicular bisector of  $OP$  intersecting it at  $C$
- ④ with centre  $C$  and radius =  $CP$  or  $CO$  draw arcs intersecting given  $l$  at  $R$  and  $S$
- ⑤ join  $PR$  and  $PS$ , these are tangents from  $P$  to circle.
- ⑥ with centre  $Q$  and radius =  $PR$  or  $PS$  draw arcs intersecting given  $l$  at  $T$  and  $U$ . Join  $QT$ ,  $QU$  which are reqd. tangents