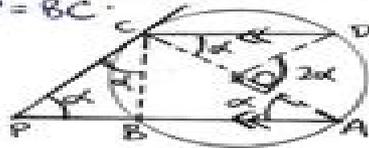


## DEDUCTIVE GEOMETRY

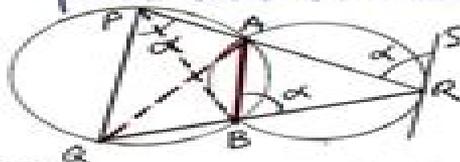
- (25) Given that  $ABP$  is a straight line and parallel to  $DC$ .  $CP$  is the tangent to the circle with centre  $O$ . If  $\angle AOD$  is two times  $\angle BPC$ , prove that (i)  $AC = CP$   
(ii)  $BP = BC$ .



- Given  
 (i)  $ABP \parallel DC$   
 (ii)  $CP$  is tangent to circle  
 (iii) If  $\angle AOD = 2\angle BPC$

- (i) Let  $\angle BPC = \alpha$   
 $\therefore \angle AOD = 2\angle BPC = 2\alpha$  (given)  
 $\angle AOD = 2\angle ACD = 2\alpha$  (angle at centre is twice angle at circumference.)  
 $\therefore \angle ACD = \alpha$   
 $\angle ACD = \angle CAB = \alpha$  (alternate interior angles,  $ABP \parallel DC$ )  
 Since  $\angle BPC = \angle CAB = \alpha$ , triangle  $CAP$  is an isosceles triangle and  
 $AC = CP$  (side of isosceles triangle)  
 (ii)  $\angle PCB = \angle CAB = \alpha$  (angles in alternate segment)  
 Since  $\angle BPC = \angle PCB = \alpha$ , triangle  $PCB$  is an isosceles triangle and  
 $BP = BC$  (side of isosceles triangle)

- (26) In the diagram,  $PAR$  and  $QBR$  are straight lines and  $SR$  is the tangent to the circle.  
 (i) Prove that  $SR$  is parallel to  $PQ$ .  
 (ii) Given that  $\angle SRP = 60^\circ$  and  $\angle BAQ = 30^\circ$  prove that  $BP$  bisects the angle  $APQ$ .

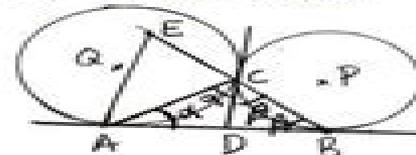


- Given.  
 (i)  $SR$  is tangent to the circle  
 (ii)  $PAR, QBR$  are straight lines.

- (i)  $\angle SRA = \angle ABR = \alpha$  (angles in alternate segment)  
 $\angle ABR = \angle APQ = \alpha$  (exterior angle of cyclic quadrilateral)  
 Since  $\angle SRA = \angle APQ = \alpha$  then  
 $SR$  is parallel to  $PQ$  (alternate interior angles)  
 (ii) Given  $\angle SRP = 60^\circ$  and  $\angle BAQ = 30^\circ$

- (26)  $\angle BPQ = \angle BAQ = 30^\circ$  (angle in same segment)  
 $\angle APQ = \angle ABR = \angle SRP = \alpha = 60^\circ$  (from part (i))  
 $\angle BPA = \angle APQ - \angle BPQ$   
 $= 60^\circ - 30^\circ$   
 $= 30^\circ$   
 Since  $\angle BPQ = \angle BPA = 30^\circ$ , then  
 $BP$  bisects the angle  $RPQ$ .

- (27) In the diagram, 2 circles touch at  $C$ . The line  $ADB$  is a tangent to the 2 circles at  $A$  and  $B$ .  $CD$  is a common tangent line for the circles.  $AE$  is parallel to  $DC$  and  $BCE$  is a straight line. Show that (i)  $AD = BD$  (ii)  $\angle ACB = 90^\circ$  (iii)  $BC = CE$   
 (iv) Find the value of  $\angle QDP$ , where  $Q$  is the centre of bigger circle and  $P$  is the centre of smaller circle.



- Given  $ADB$  is tangent to both circles  
 (i)  $AE \parallel DC$   
 (ii)  $CD$  common tangent  
 (iii)  $BCE =$  straight line

- (i)  $AD = DC$  (two tangents from an external point to a circle are equal)  
 $BD = DC$  (two tangents from an external point to a circle are equal)  
 $\therefore AD = BD$   
 (ii)  $\angle DAC = \angle DCA = \alpha$  ( $\triangle ADC$  is an isosceles triangle;  $AD = DC$ )  
 $\angle DBC = \angle DCB = \beta$  ( $\triangle DBC$  is an isosceles triangle;  $DB = DC$ )  
 $\angle DAC + \angle DBC + \angle ACB = 180^\circ$  (sum of angles in a triangle)  
 $\alpha + \beta + (\alpha + \beta) = 180^\circ$   
 $2\alpha + 2\beta = 180^\circ$   
 $\alpha + \beta = 90^\circ$   
 $\angle ACB = 90^\circ$   
 (iii)  $\angle AEB = \angle ECB = \theta$  (corresponding angles)  
 $\angle EAB = \angle CDB = \mu$  (corresponding angles)  
 $\angle EBA = \angle CBD = \phi$  (common angle)  
 $\therefore \triangle EBA$  and  $\triangle CBD$  are similar triangles.

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**AW Rasmussen**



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