

DEDUCTIVE GEOMETRY

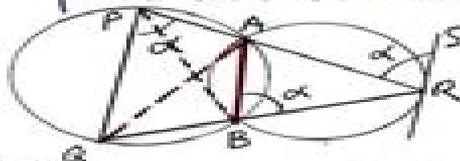
- (25) Given that ABP is a straight line and parallel to DC . CP is the tangent to the circle with centre O . If $\angle AOD$ is two times $\angle BPC$, prove that (i) $AC = CP$
(ii) $BP = BC$.



- 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.

Cpm Geometry Homework Answers

Liyong Dong



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