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 ∠AOD is two times ∠BPC, prove that (i) AC = CP (ii) BP = BC.

Given
(a) ABP // DC
(b) CP is tangent to circle
(c) If ∠AOD = 2∠BPC

(i) Let ∠BPC = α

∴ ∠AOD = 2∠BPC = 2α (given)

∠AOD = 2∠ACD = 2α (angle at centre is twice angle at circumference)

∴ ∠ACD = α

∠ACD = ∠CAB = α (alternate interior angles, ABP // DC)

Since ∠BPC = ∠CAB = α, triangle CAP is an isosceles triangle and

AC = CP * (side of isosceles triangle)

(ii) ∠PCB = ∠CAB = α (angles in alternate segment)

Since ∠BPC = ∠PCB = α, triangle PCB is an isosceles triangle and

BP = BC * (side of isosceles triangle)

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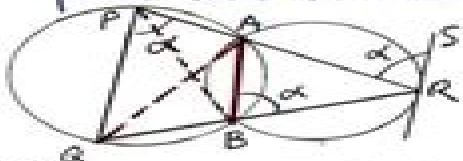
26 In the diagram, PAR and QBR are straight lines and SR is the tangent to the circle.
(i) Prove that SR is parallel to PQ.
(ii) Given that ∠SRP = 60° and ∠BAQ = 30° prove that BP bisects the angle RPQ.



Given.
(a) SR is tangent to the circle
(b) PAR, QBR are straight lines.

(i) ∠SRA = ∠ABR = α (angles in alternate segment)

∠ABR = ∠APQ = α (exterior angle of cyclic quadrilateral)

Since ∠SRA = ∠APQ = α, then SR is parallel to PQ * (alternate interior angles)

(ii) Given ∠SRP = 60° and ∠BAQ = 30°

26 ∠BPQ = ∠BAQ = 30° (angle in same segment)

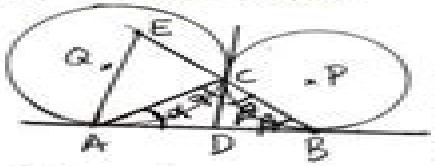
∠APQ = ∠ABR = ∠SRP = α = 60° (from part (i))

∠BPA = ∠APQ − ∠BPQ
= 60° − 30°
= 30°

Since ∠BPQ = ∠BPA = 30°, then BP bisects the angle RPQ *.

---

27 In the diagram, 2 circles touch at C. The line ADB is a tangent to the 2 circle 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) ∠ACB = 90° (iii) BC = CE (iv) Find the value of ∠QDP, where Q is the centre of bigger circle and P is the centre of smaller circle.



Given (a) ADB is tangent to both circle
(b) AE // DC
(c) CD common tangent
(d) 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)

∴ AD = BD *

(ii) ∠DAC = ∠DCA = α (△ABC is an isosceles triangle, AD = DC)

∠DBC = ∠DCB = β (△DBC is an isosceles triangle, DB = DC)

∠DAC + ∠DBC + ∠ACB = 180° (sum of angles in a triangle)

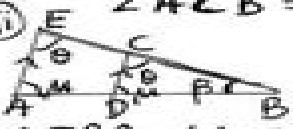
α + β + (α + β) = 180°

2α + 2β = 180°

α + β = 180°

∠ACB = 90° *

(iii)



∠AEB = ∠DCB = θ (corresponding angles)

∠EAB = ∠CDB = μ (corresponding angles)

∠EBA = ∠CBD = β (common angle)

∴ △EBA and △CBD are similar triangles.

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