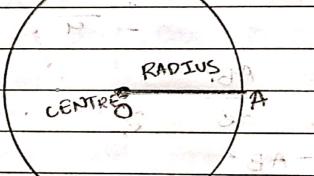
CIRCLES

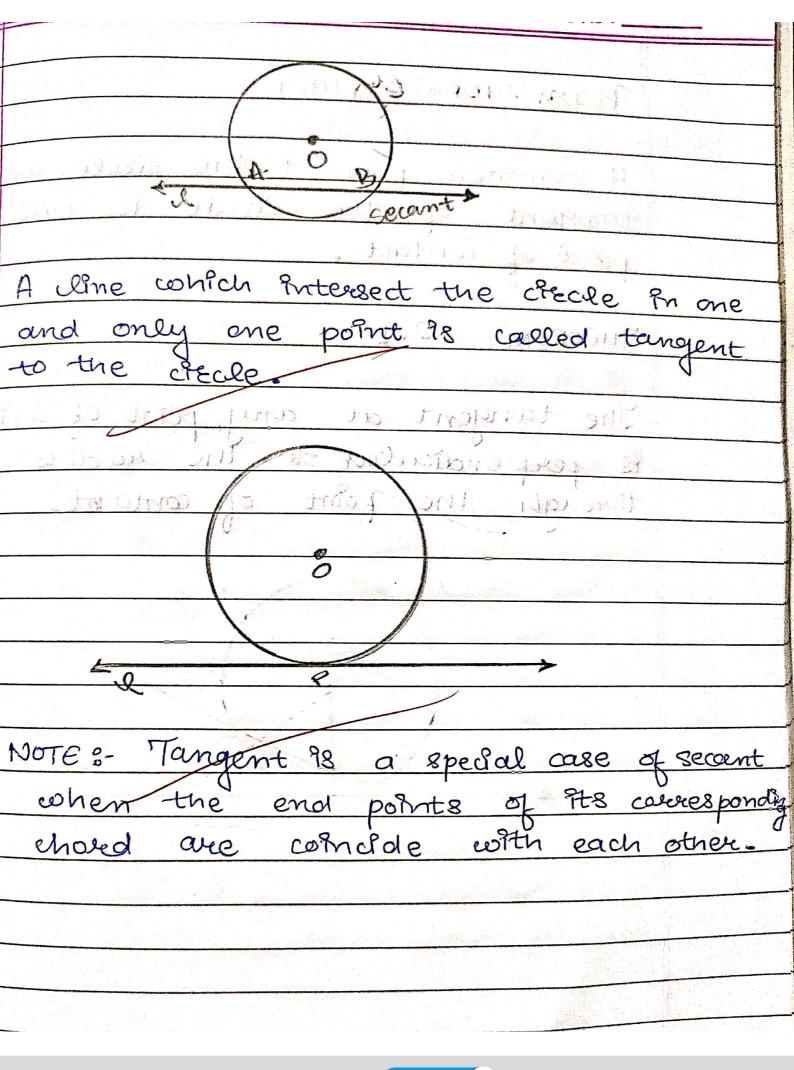
Checle 98 a collection or set or locus of points which are equidistant from fixed point.

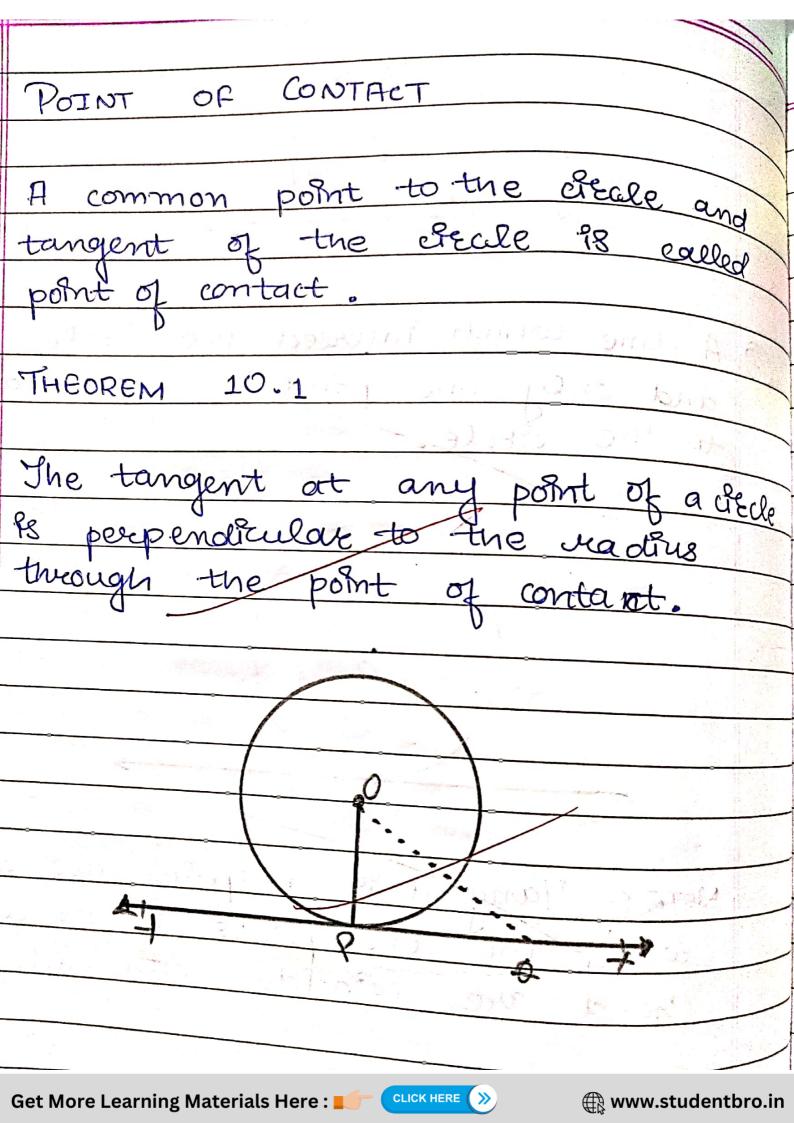
The fried point 98 called centre of chelce and fried distance 98 called vacins of chele.



SECANT AND TANGIERST OF CIRCLE

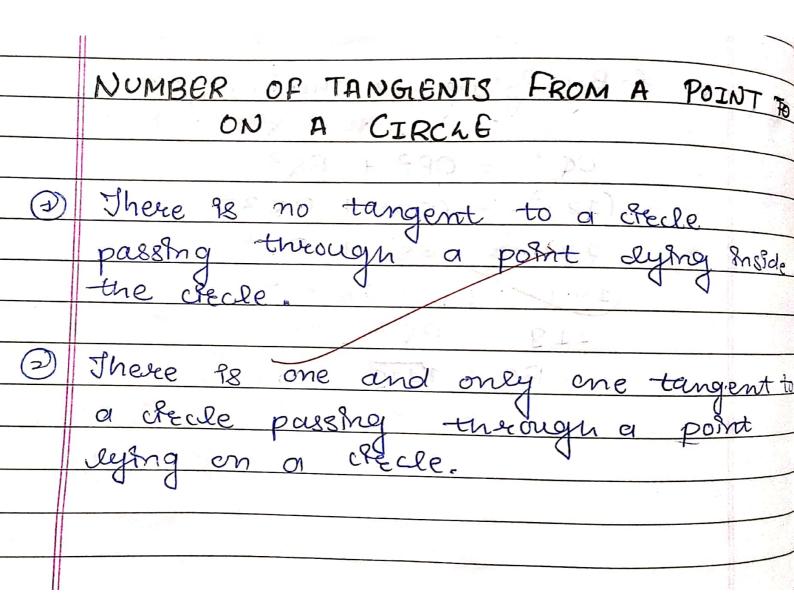
1 A line which intersect a structe in two distinct points is called secant of decler

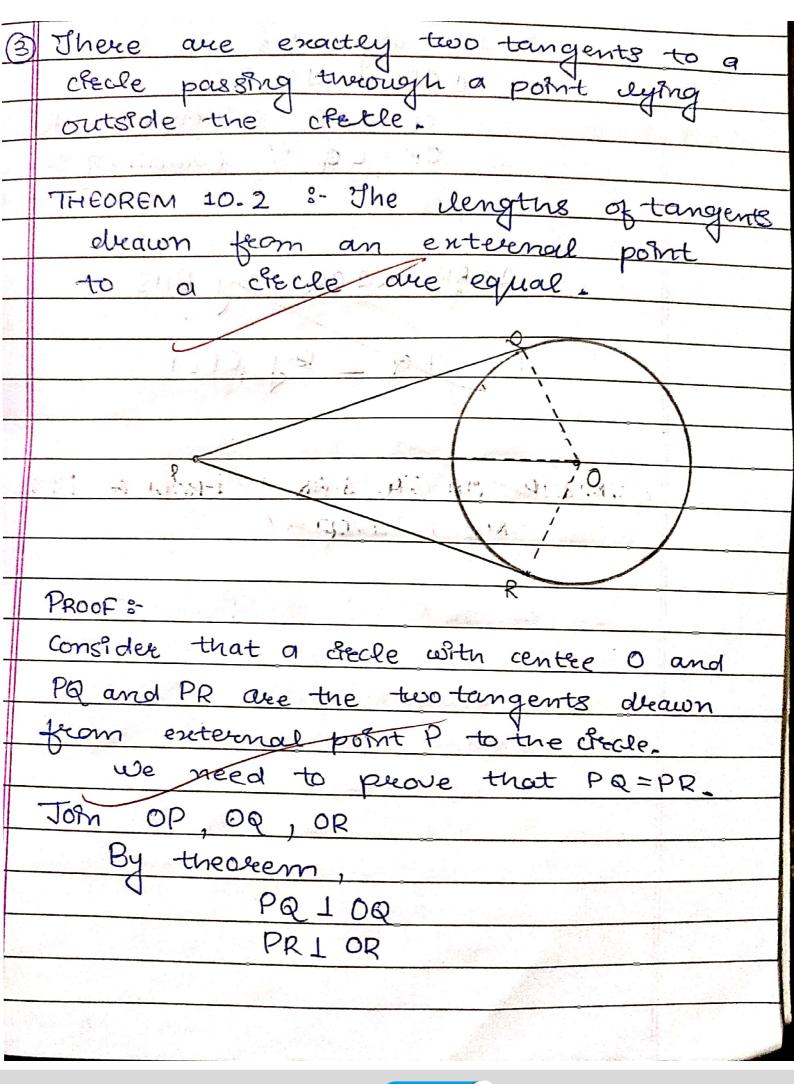




Proof & consider points other than P, such we we'll find that op is the shortest distance. OP >00 Thus OP well see the perpendicular to XY.

	, YX or A
(9)	A tangent to a checke intersects 77 %
	one point cs).
	_ losuce proff ?
(11)	A line intersecting a crecke in two points
	48 called a secant.
(1117)	A creck can have two parallel
	A secle can have two parallel tangents at the most.
(W)	The common point of a tangent too
	crecle and the orche is called
	point of contact.



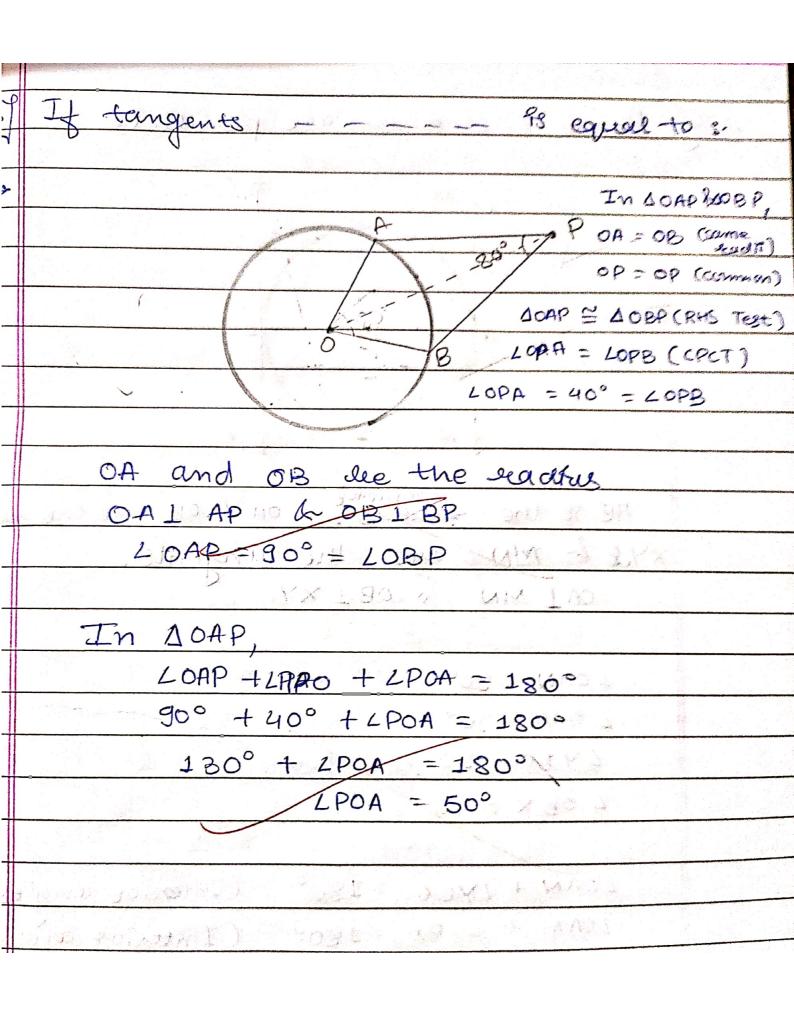


OP = OP (Common side)

OR = OQ (radif of same cfecte)

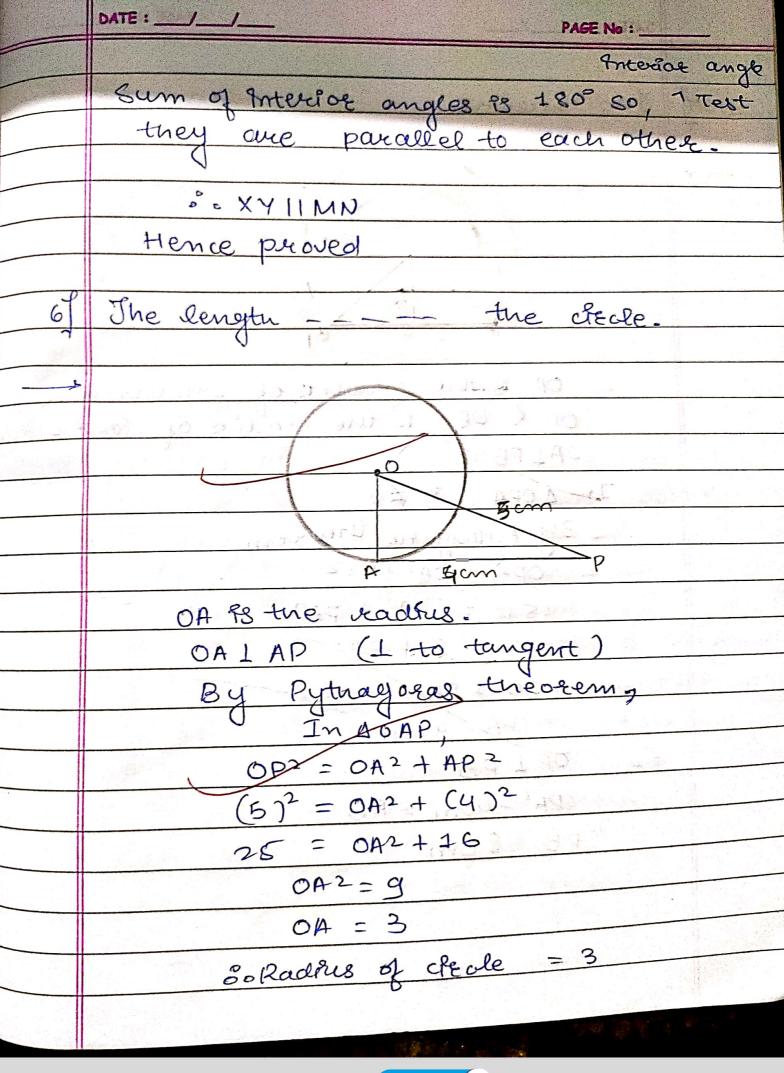
AORP = AOQP by RHS

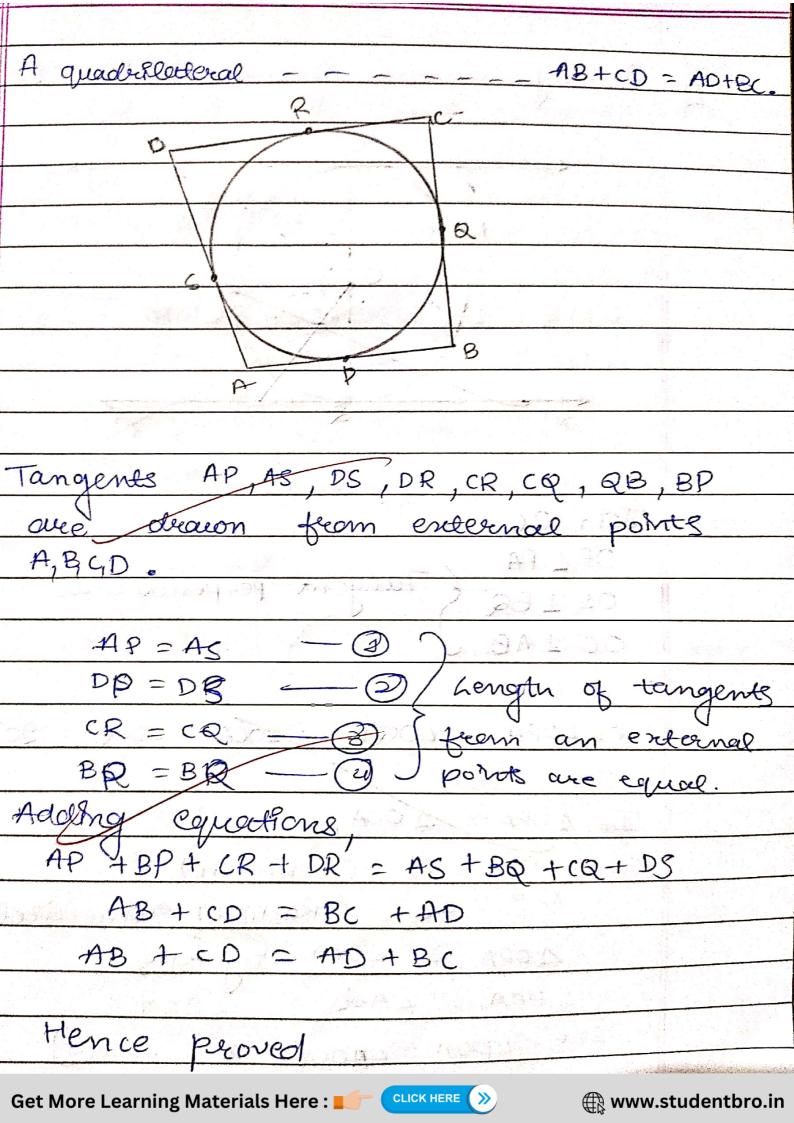
PR = DQ _ 18y CPCT

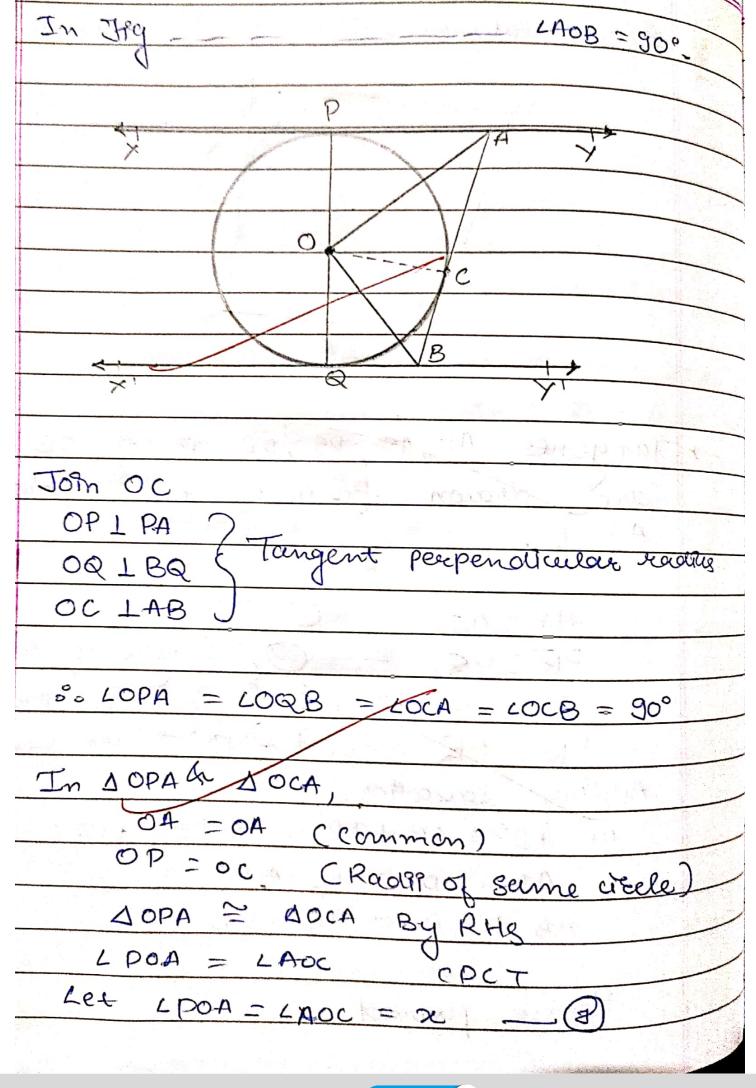


are parallel. Preove ---AB 98 the leaders OA h OB dee the hadre XYI & MN one the tangents. DAIMN & OBLXY LOAN = 90° 1 5 + 0011 LOAM = 900 AD9 LY80 = 900 LOBX = 900 (Interior angles) LOAN + LYBO = 1800 CInterior angles LOAM + LOBX = 1800

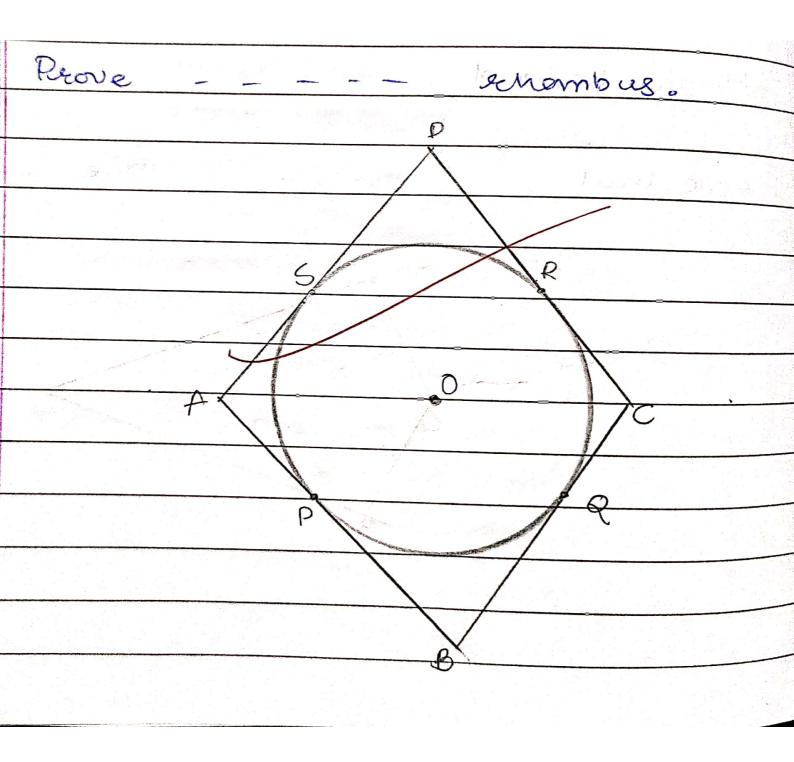
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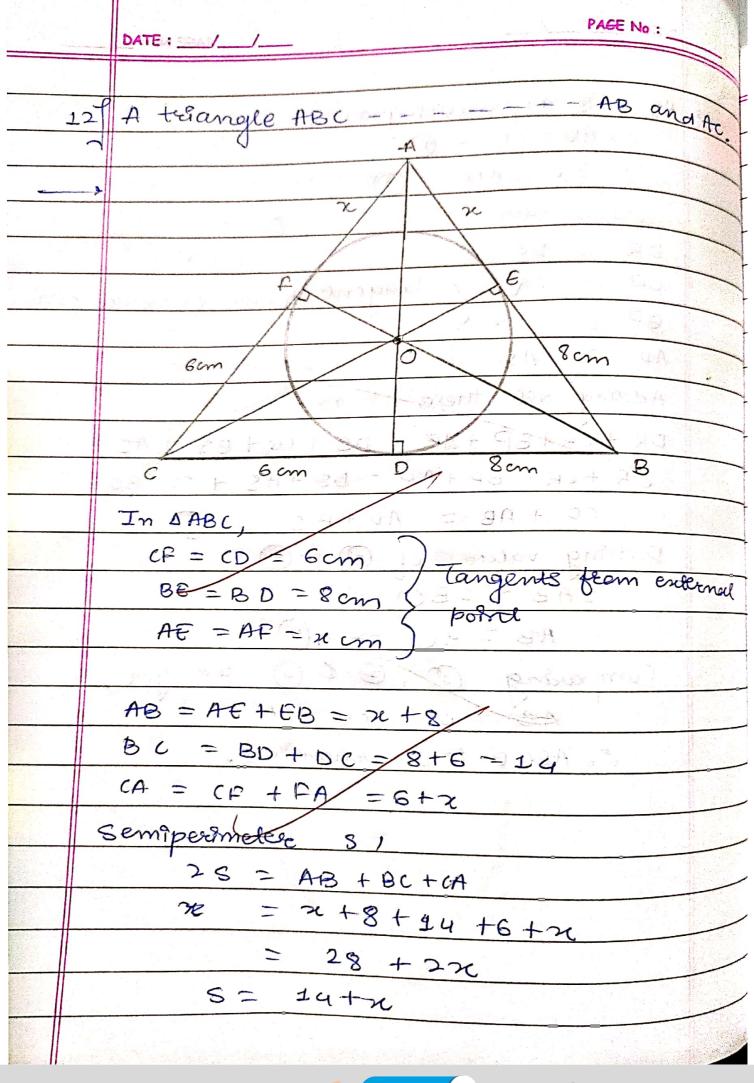


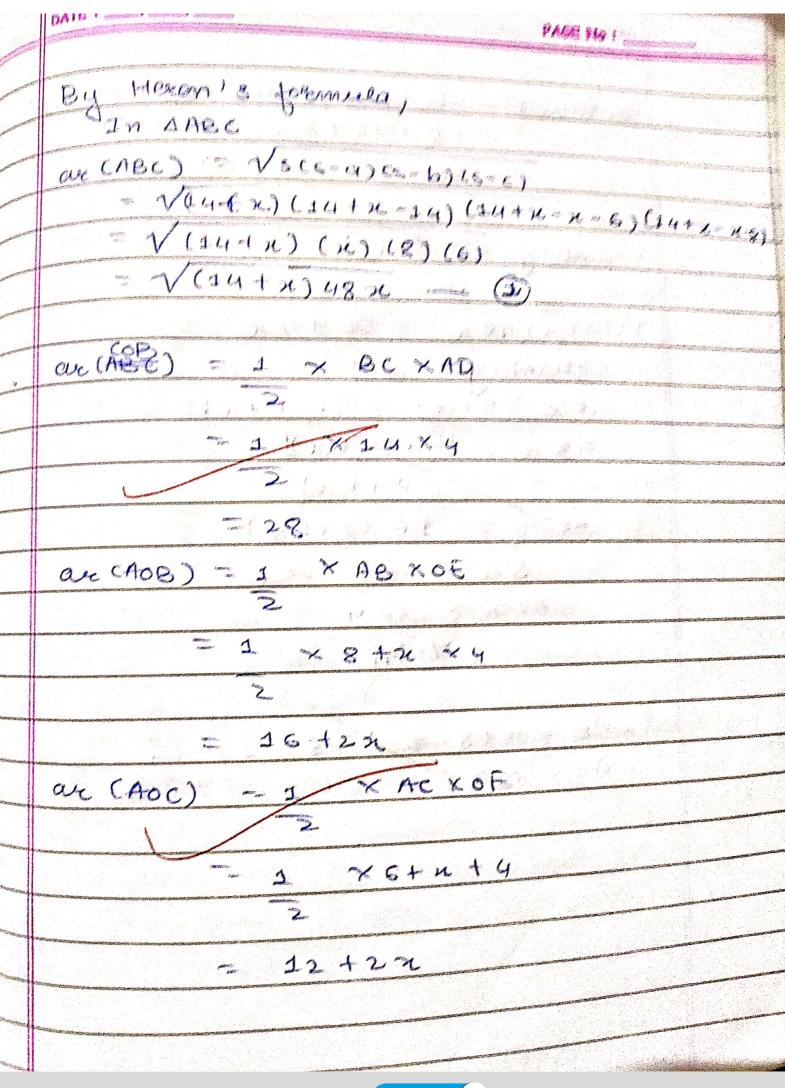


	DATE:/ PAGE No :
	Santlovely,
	MORB = MOCB by RHS LQOB = LCOB (CPCT)
	8 - LQQB = LOOB = y
2 Carlotte and the same of the	LPOA + LAOC + LBOC + LBOQ = 180° (LEMEQUE)
	x + x + y + y = -180° (from (160)
	2 x 402 y A = 1803 101 + 210
	2 (x + y) 1809 /)
	108-1 FUR + 403-1.
	LAOC + LBOC = 90°
	2A-0B 7 900
	Hence proved

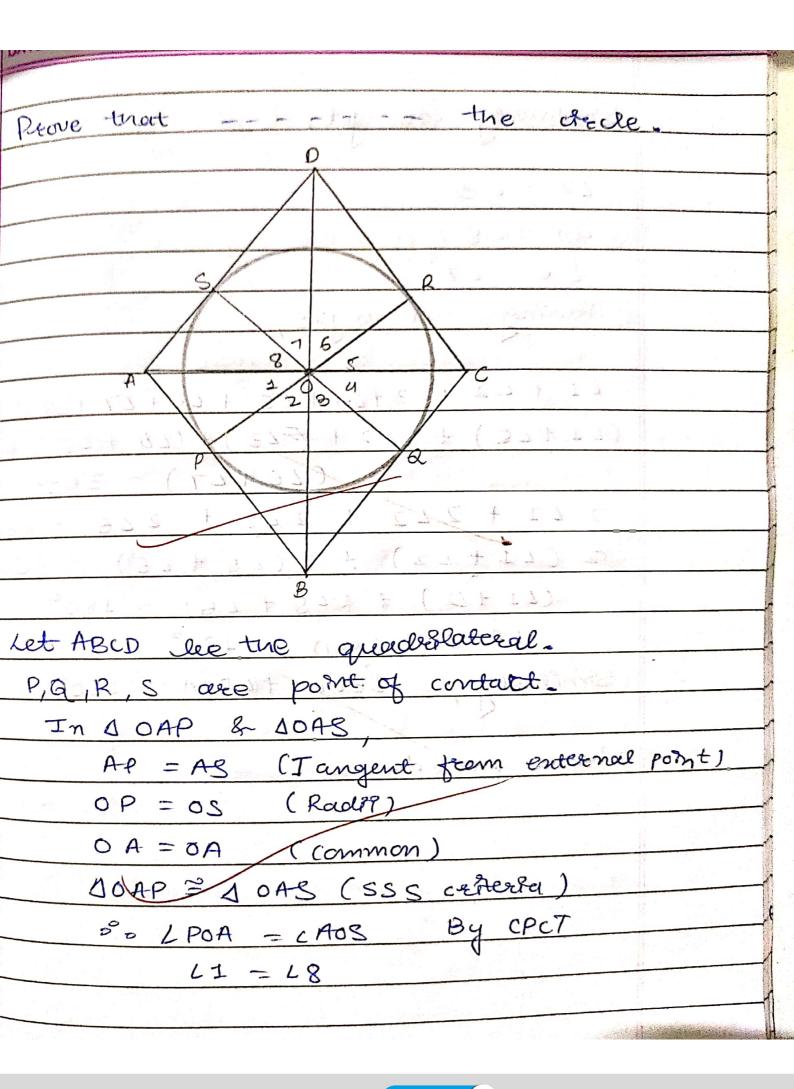


ABCD & a parallelogram. BC = AO _ (3) = DS DR CR = CQ BP = BQTangents from external point AD = AS Adding all these, DR + CB+BP + AP = DS + CQ+BQ + AS DR + CR + BP + AP = DS + AS + CQ + BQ CD + AB = AD +BC -(3) Putting value of D40 AB = BC = CD = DA s's ABC D PS a rehamblus.





ar (ABC) = ar (COB) + ar (AOB) + ar (AOC) = 28 + 16 + 20x + 14 + 2x = 56 + 4x _ 0 Equating D 4 0 STONE (X + 1) E) / VC14+x) 48x = 56+4x Squaring = (56 +4x) = (56 +4x)2 48 n = [4 (14+n]2-(14th) 48 n = 16 (14th) 48x = 224 +162 $32 \pi = 224$ x = 7cm 00 AB = 11+8 = 7+8 = 15 cm Ac = 01+6 = 6+7 = 13 cm



Simplarly we get 24=15 26 - 47 Adding ell angles, L1 + L2 + L3 + L4 + L5 + L6 + L7 + L8 = 360 (L1+L2) + (L2+ + L2) + (L4+L5) + $\frac{(26+27) = 360^{\circ}}{221+212+215+216=360^{\circ}}$ 2 (11+12) +2(15+16) = 360° (L1+D) + (L5+L6) = 180° LAOB + LCOD = 180° Samplaney, LBOC + LDOA = 180° Hence proved.