

27 Abhinau IXB Math d(3 11. ii) d V) d i)d 12ii)a)60 d (iii) (V) Su+2 = 90 6n = 90 2 = 90 - 15 She ages Sn = 75 (C) L V) 692 = 180 n = 30 (b) (Part -B Section - I LDAC = 180-108 (lovear pair) 13. = 72 L PAB : LBAL = 1:3 121 +3n = 72 42 = 72 n = 18

LDAB = 18°

ADB is an isse isocles triangle because => LDAB = LADB. 18 = \$ LABB (Substituting LDAB) LDAC + LADC + 2 = 180 90+81=180 Q.14 6/2 = 180-12 Ly = 180-L1 L21 + L4 + (2 = (180 - 12) + (180 - 4) + (180 - L3) = (180+180)-(12+11+13) = 3x 180 - 180 (Sum of angles in Dle is 180) 540-180 = 360" .. sum of exterior angle = 360° Q.15. 80 4 1 PQD = 180-60 (linear pair) LRQP = 25+120 = 145

LRQP = LSRQ (Alternate interior angles) LRQP = /QRS = 140

27 Abhinar IR 27 Math In DA BE and INDEBO AB - CB (given) LCBD = LABE (same angle) LAEB - LEDB Fa LCDB = 180-2 LAEB = 180-y = 180-x (replacing y with a as they are equal) =) LCDB = LAEB By AAS DABE = CBD AE-CD by CPCT In ABEC andDEDB BC = BC (same side) BE = CD (given) LBELE - LCDB = 90 (altitudes) By RHS, ABEC = ACDB As angles are equal, triangle is isocelestriangle.

	27 Abhirav Math Tx B Part - B Section-II
18.	4b = a (vertically opposite)
	a+b+75 = 180 (on same line) 4b+b+75 = 180 (substituting A) 5b = 105 b = 21 a = 4b = 84
3	2c = 75 +b (vertically apposite angles) 2c = 75+21 2c = 96 c = 48
(40)	a = 84 b = 21
19.	In ABD and DACD AB = AC(given) LADB=LADC = 90 (given) AD = AD (comman)
3	By PHS DABD ≅DACD ∠B = (C € (By CPCT)

Application of the last

27 Abhinar IXB Moth 20. 20 + 2y = 180 (co-interior) 2(21+4)=180 2+y = 90 C In DAPB LAPB+90=180 (angle sum property) LAPB = 90 21. INA DADBand DBCA, AR = AB (comman) AD = BC (given LBAD = LABC By SAS, DBAD = ABC
By CPCT, BD = AC LABD = LBAL Section - III LABC = 180-22 LACB = 180-24 180 - 22 + 180-24 + LA = 180 360 - 22 - 24 + LA = 180 2(180-(2+y))+A = 980 180-(21ty) + 1 = 90 -[n A B CO 2+y+L0 = 180 Lo = 180 - (a+y)

Substituting in (),

