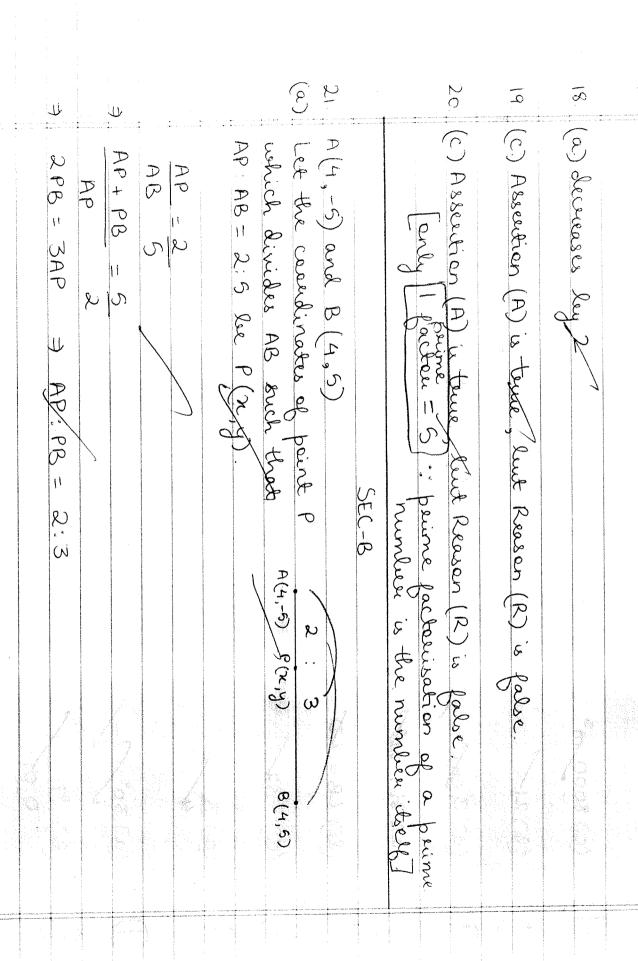
Class-X

Mathematics Standard (041)

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		energials remains and	(C) 6.5 cm/		(d) 3 mils/		7	(a) -17		(a) 22-4x+1=0		2) 5	The second of the second secon	(2) / (2) &		(d) al = 6	To the contract is considered	(le) inhinite		
		Andrew Common and designation of the Common and the	en aven en e	The control of the co		To a common designation of the common design		ANCHE DE L'ARTE	reason and the second control of the second	. *		e a maria mana de la manda de la mana de la manda d								
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		16. (a) 30°	15. (C) 3 4	(C) -	13 (&) 6	12. (a) &	(a) (3)	10 (%) 21	90000
0.04		0.		-32) 68 = 62) sin 68°	3		330
Bibliochtische und der der der der der der der der der de	The second secon							1.10	
	distinguishment of the contract of the contrac			enskrywania wy wydd dae y dae y chifae y dae y dae Dae y dae y wy wy wy dae y					4.22



P divides AB internally in the eastio

W 2:3

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Jes Ce

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THE STA

Second numbers = 120

 $96 = 2^5 \times 3$ $120 = 2^3 \times 3 \times 5$ $HCF(96, 120) = 2^3 \times 3$

24

48

۲۱

60

11

3

(N

CM (96, 120)

25× 3×5

24 and LCM (96, 120) = 1480

HCf (96, 120) =

11

480

11

32×3×5

Adding () and (2),

(a2-cest 0 + a2 sin2 0) + (22 sin20 + 22 0) + 22 0

2ale sin0 ces 0 = m2 + n2

a2 (sin20 + cest 0) + 22 (sin20 + cest 0) = m2 + n2 Squaring hoth sides, at sin' θ + le' cest θ = 2 alusin θ cest θ = n^2 a sin 0 - le ces 0 = n Squaring Swith sides, at cest 0 + let sint 0 + 2ale sin Oces 0 = m² a sin 0 + - le ses 0 = n To priore. a2+ lo= m2+n2 a ces 0 + 0 sin 0 = m a cas 0 + le sin 0 = m $a^2 + k^2 = m^2 + n^2$ Hence, becaused [(a-l)= = a=+ l=- 2al=) + 2 alusin Ocas C (a+l,)2 = a2 + l,2+ 2al

Ø

SEC-C

et us assume, to the centresey, that Squaring both 13 is restional $(3m)^2 = 0$ 3 divides where of (: 3 is brime) b and a one cofferme positive integers

, divides

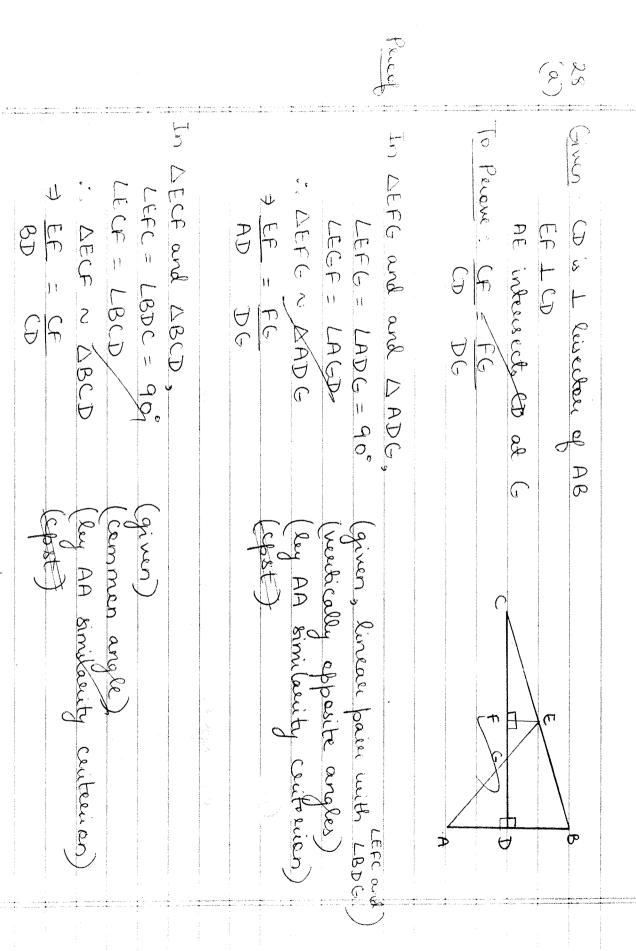
divides of

Frem (3) and (4); 3 divides breth /p and q
But p and q are caperine, i.e. HCE(p, q)=1 (Using (1))
Which is a combinadiction .. 13 must be invalianal. Hence, peremed

aq = a+ (q-1) d = b and common diffesemble de al
AP: a, a+d, a+2d,...

an = a+(n-1)d = a+ (b-) &= q

- p+q-n - p+q-n Hence, peroxed	$a_{n} = a_{+}(n-1)d$ $= a_{+}(n-1)(-1)d$ $= a_{+}(n-1)(-1)d$	Substituting in (), a+p(-1) - (-1) = q d a+1 = p+q	(q-p) d-p-q	Sultracting O from D, a/+ gd d = b
(Substituting fewer 3)				



هم ده

Let the speed of person I be a karth (x>y) and speed of person 2 be y kroth (x>y) Circn distance = speed x time (-iron distance = 16 km	Frem (D and (2), Ef - Uf - FR FG AD (D - FE CD DG Hence peuced	But AD = BD (:: (D lineth AB) AD BD (CD
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Adding 1) and 2, Speed = (44y) km/h
Dutance = 2(44y)
16 = 24+24 Speed = (n-y) km/h
Distance (enly AB) = 8 (x-y) Time = 2h Time = 8 h ase 1: Towards each other ase 2 Same durchion 16+84= y fund y x fam/h J and 5 B N Pag D

tan 0 1 - cat 0 LHS = tan 0 substituting in O Speed of **)** i tan 0-1 tan2 0 1-tan 0 tan o Cet B person 1 = s consod tan 0 (1-tan 0) Cat O 11 -tand tan 0 -tan 0 + Sec O casec O Show h 3 km

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				And common the second control of the second															S	
Mes								Mean I I		~ ∆	55-60	So - SS	46 - 60	40-45	35 - 40	30-35	25 - 30		(lasses	
m = 36.86	= 36.858	- 42.5 - 5.		- 42.5-		= 42.5 +	2/1	A+ h 21	O,	70	4	3	S	6	16	22	14	(F.)	Fueguenc	
(xmadda)	≈ 36.86	843.	70	395	70	5×(-79)		141		A THE TAX AND THE	57.5	52.5	47.5	A (42.5)	37.5	32.5	27.5	(x;)	y Mid paint	
										2ptu =	2			0	***	-2	1 3	7	to u'= n:-A	
				A CONTRACTOR OF THE CONTRACTOR	and the same and the	And a management of the contraction was contracted and the contraction of the contraction				-79	12	6	5	0	- 16	- 44	-42		J. u.	
																The second secon			Company of the Compan	

(a). Let height of basket = AB = h m tan 60° = AB D= second obsessesses

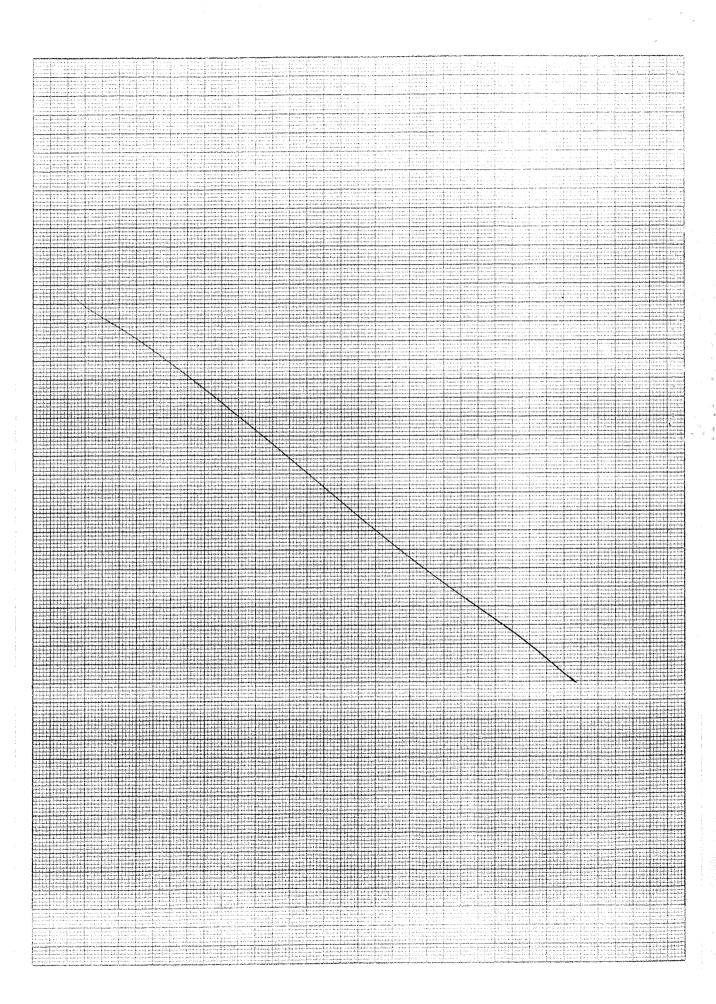
D= second obsessesses

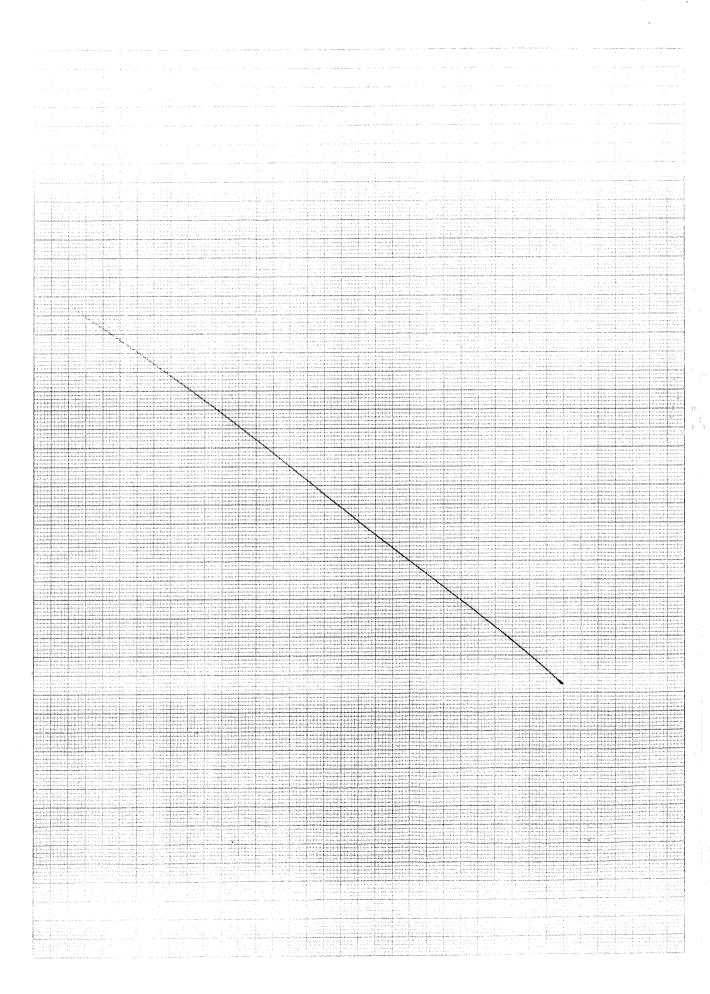
Angle of elevation of A few C= LACB = 60°

Physic of elevation of A few BD II 2 cases are formed A = het-air trallen Intruduction (D : 100 m 4 V3 = h In WASD BC+ 100 = hv3 BC+106 + loak -C H BD BB 1000 100 m ϖ

Lase 1 Dut of A from C = AC In AABC, sin 60° = AB Height of leastreet Distance of leashet BC+ BD = 100 m h = 25 (3 (3 = 50·(3 44(3 = 100 AC **(**) feron frest placement = 100 m 25(3 m

= 50/3 + 100 = 50/3 + 100 = 150	(C) Case 1 To find - BD BD = BC + CD = h + 100 (Jenem (D)	Justance et bouhert from fieut eluseuwer = []	
		2	



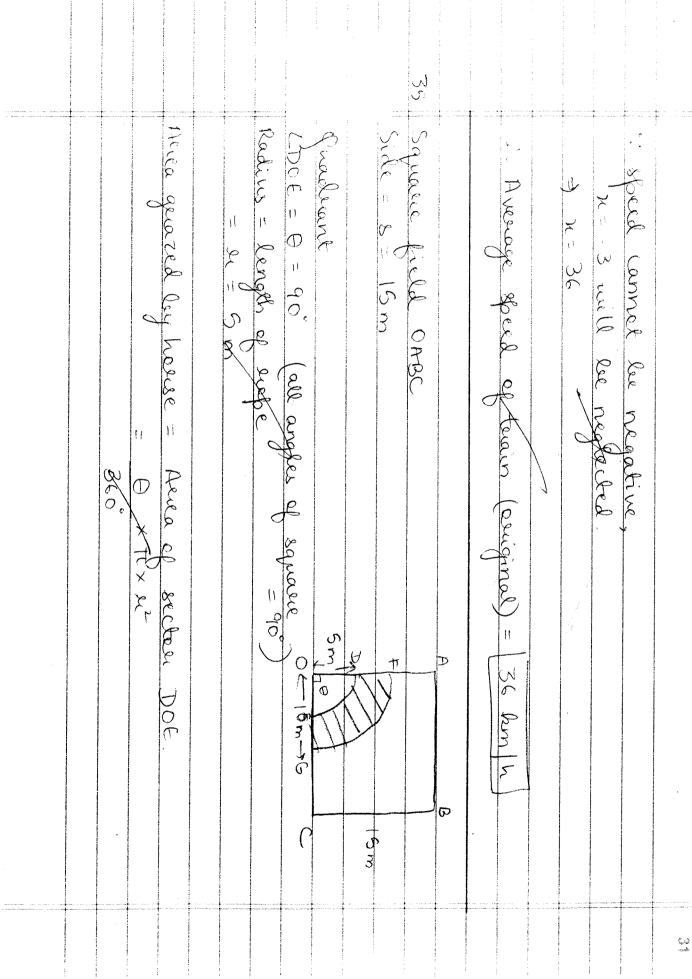


June MABC with leading et= 4 cm constanction. Jean OF, OF, OA, OB, OC OD = OF = OF = 4cm Heritarial distance BD = 75 m To find - BD BD = h3 BD = 10cm = 25\f3 x \f3 (Radii) 000 A **∞** \$

Let the original average speed Original: distance = 54 km AB. TO - RX + W 2.4.5 X = 4.5 AE + BE = speed = 2 han 11 x+10+ 10+ 8+ 8+ X 4.8.4 ん + 10 dixtance 14.5cm Two can speed ∞ ۱Ì 11 14.5 cm 12.5 cm 11 le x len

*\$*0

$(\chi - 36)(\chi + 3) = 0$	$39x + 108 = x^{2} + 6x$ $39x + 108 = 0$ $39x + 108 = 0$	$3 \left(\frac{18}{\pi} + \frac{21}{108} \right) = 3$	S4 + 63 = 3 X X + 6	New: distance = 63 km speed = (x+6) km/h time = distance = 7 63 h



7 11775	360 100 (= (a+w) (x v)	3157 × 15 × 5 a2-l2	- 90 × 314 × (10 ² -5 ²)	= 0 ×TC×R2-	Increase in quazing = Ariea of sector 706-	new length of su	= 1,9625 m² = 1962 S	3925	785 314X	e x	の x x x x x x x x x x x x x x x x x x x

(i) SA of I dimple = CSA of heminsphesie Celf ball = Sphere Radius = R = 4.2 Dimple = Hemisphere 4.2 7 2.1 cm SEC-E

(iii) Vel et golf = Vel et (ii) Vel to make 1 dimple 0.2514cm 176 cm2 700 ALL LANDS OF THE PARTY OF THE P 11 11 11 1 2 TT 23 0.01676 cm3 352 21000 sphere - Vel of 315 hemispheres 0 hemisphere 0 0 7 0 <u></u> 126000 00000 1,0000 1.9100

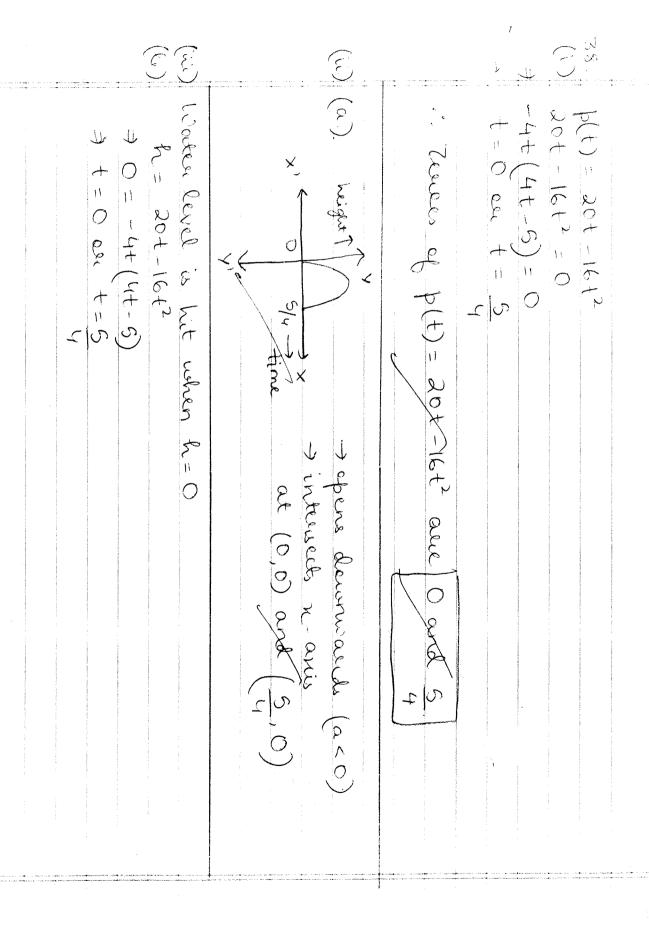
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[R) - Red (R) (R) - Blue (B) (R) - Geneen (G) en (G) - Red (R) en (G) - Blue (B) en (G) - Blue (B) llew (Y) - Red (R) llew (Y) - Blue (B) cutternes = [9]	Texal no.			(i) Spinner
	Yellow (Y) - (5	Jellen (4) - Be Jellen (4) - Be Jellen (4) - Be	Red (R) - Bh	(R)
	meen (C)	Less (B)	(B) (R)	Rea I
RR RB CR CB, YR, YB,	3.97	YR, CC,	RB CR,	The state of the s

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38.808 -

Net = + 440-110 = + 330 = + 800 mest likely collected (Rs. 330)	Amount = 7(-10) (scheel Amount = 75 (pay) Value = 7 (-110) (has to pay) Value = 7 (-110) (Jain)		(ii) X = {RB} Favourable entronés = 1 P (making) = No. of favourable entronés = 1 P (merelle) = Tetal no. of entronés = 1 P (purple) = Tetal no. of entronés
-----------------------------------------------------------------------	---------------------------------------------------------------------------------------------------	--	------------------------------------------------------------------------------------------------------------------------------------------------------------------



= Delphin has stanted at t=0 = at t=5, delphin enacher maken level again.

distance consued = speed x times 20 cm/3× 5 &

25 cm

END :