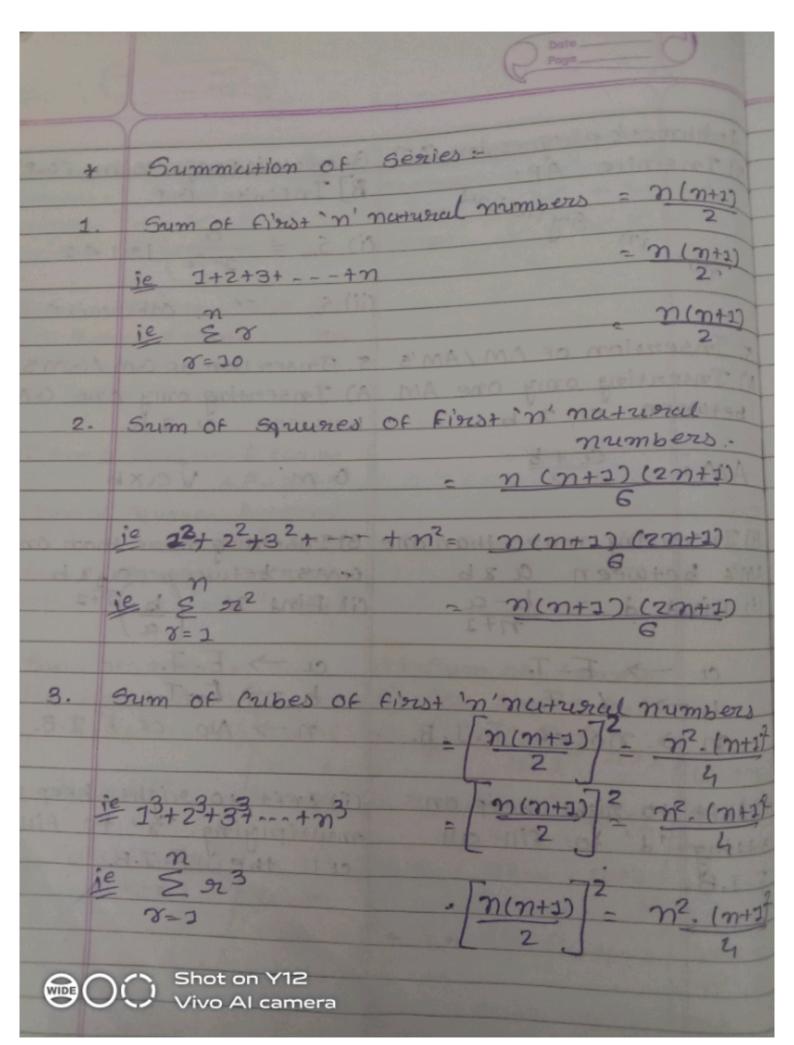
sequence And Series
43415
+ Formula E list:
The second of th
Anithmetic Progression A.P. Geometric Progression Co
1. Common difference de 2. Common Rusion, 8 (8:
L-R -d'
(i) $d = T_2 - T_3 = T_3 - T_2 = \dots$ (i) $\delta = \frac{T_2}{T_3} = \frac{T_3}{T_4} = \dots$
T T T
(ii) $d = \ln $
The same of the sa
2. nth term, Tn 2. nth term, Tn
and the second training and the second of th
(i) Tn = ci+(n-1) d (forom left+0) (i) Tn = ci.(8) -1 (from left to right to) (ii) Tn = l (from right to) (ii) Tn = l (from right to left)
(ii) Tn=1-(n-J) & (Forom szight to) (ii) Tn=1 (From szigh
or to left
to to desire your common could be to be to the contract of
- Tn= Sn-I, For n >2/ (common)
3. Assumption of terms in A.P. 3. Assumption of terms in C
A] Creneral A.P.: A] Creneral C.P.
a, atd, atzd,, L-2d, L-d, la, cor, cor2,, be 1 - 1
B] Particular A.P. B] Particular G.P.
(sums of terms given) CProduct of terms giv
3 termy: a-d, a, a+d 3 terms: a, a, ar a, ar a terms: a, a, a, ar ar
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O C VIVO AI camera

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	+ - + =
Anithmetic Progression A.P.	Geomatric progression C.P.
a-30 a-20 a-3 a a+3 a+20 a+30	u a a a a ar ar ar 2 23
3 terms v v	3 terms ~ ~ ~
	Hermy V-V-V
Steams VVVVIS	terms VVVV
Remark : (for particular A.P)	
1. (i) 3um of 3 terms = 3a	
(ii) Sum of 4 terms = 4a	
(iii) Sum of 5 terms = 5a	
2. (i) Sum of squares 3 terms	
= 302+202	
(ii) Sum of Squares 4 terms	
= 40 <sup>2</sup> + 20d <sup>2</sup>	
(iii) sum of squares 5 terms	
$= 5u^2 + 30d^2$	
Shot on Y12	
Shot on Y12 Vivo Al camera	

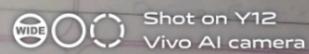
12 14 14 14 14 14 14 14 14 14 14 14 14 14	+ + -
Azithmatic Parogression (A.A.	Geomatric Progression (G.P)
4. Sum of terms:	4. Sum of terms:
A) for finite A.P. :-	A) FOR Finite Cx.P. 1
n e	
(i) Sn= 1 (2a+(n-1) 23 when	(i) Sn= a (22-2); 927 1 When
(ii) Sn= 2 Lec+ 13 involved	1-0 5n2 a (1-97) 572 2 involved
(iii) Sn= (a+c) (b+c-za)	(ii) Sn= nx (1) 2 = b
2(b-a) When	
a > F.T. n' is	(iv) Sn: ln-a; 271 when
0 / 0.1.	92-1 mis
c > L -> L.T. involved	
(iv) Sn = 2+a, 2-a?	(v) gn = a-loz ; n/2 involved
2 2(8-41)	1-16
an alling A.P.	BJ Incinite C.P:-
BJ Incinite A.P.:	D) Jalerane
Not In Synabus	(i) So = a (8) < 1
	newly approaching o
	(ii) So = 00, otherwise
	not decined
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***************************************	

MAR GRIMAN RAID	
S. Intersection of A.m. (A.m's	5. Intersection of
A. M. between clans b	AT Insenting only one O.m. between event
A.M. CI+b	C.M. = Vaxb
A.M's between cound b.	B) Insenting more than one
(i) Find d= b-a n+3	(i) Find de (b) n+3
b -> L.T:	$CI \longrightarrow F.T.$ $b \longrightarrow L.T.$
n → No. of F. I.B	n-> No. of F.I.B
(11) Left to right, keep on clading "d" to fill	(ii) Left to right, keep on multiplying "2" to fill
cill F. I.B.	ell the F.J.B.
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\* Properties / Prove that Sums to be siememberes without proof + A.P. If m. Im = n. In then Imin = 0 If 7 times the 3th term of an AP is equal to 12 times the II's term than Ist term = 0 4. Tg = 12. Tgs then Tag = 0 2. If Tm= n & Tn= m then (i) Toz = m+n-52 Toman - 0 Tm-n = 2n IF To = 15, Tos = 30 then (1) To3 = 32 IF 10th term of A.P is Is and Isth termis 70 If Tm = = 2 7n = = in then (i) Tmn = 1 (ii) Smn = 2 (mn+1)  $\frac{je}{T_2} = \frac{1}{3}$   $T_5 = \frac{1}{3}$ thun (i)  $T_{35} = \frac{1}{2}(35+1)$   $5_{35} = \frac{1}{2}(35+1)$ 4. If Sm= Sn, m +n then Sm+n=0 ie 913 = 520 · 522 = 0 Shot on Y12
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	Them because of
5	If $S_m = n \times S_m = m$ then $= (m+n)$
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	If sum of the II terms of AP is I9,
	If sum of the 12 terms
	Sum of 19 tenm is 12 then
	5 <sub>30</sub> = - (11+19) 5 <sub>30</sub> = -30
	930 = -30
-	T. 9 02 11 - 11 2 2 2 CL
6.	$T_{e} = \frac{9^{2}}{5q} = \frac{p^{2}}{q^{2}} = \frac{1}{1}$ (ii) $T_{e} = \frac{2p-1}{1}$ $T_{q} = \frac{2q-1}{1}$
	Ta 29-1
-	
7	To saude on G is given since the bring to
7.	If natio of Sn is given and we have to find out ratio of In then Steps are
CM 89	(i) n = 2 (terms) - 1
08	(ii) Put n in given rutto of Sn to get the ans.
0	TO TOO TO A TOO A
2,	If Tp=a, Ta=b, Ton=c then
	a(9-7)+b(97-b)+c(9-9)=0
	is Carolic expension / Base > Ans. = 0
	- Cyclic exporession —
	Powerz -> Ans. = 1
	J. P. P.
	RX
	The state of the s
9.	If Sp=a, Sq=b, Sn=c then
	alassih. Then
0	P(9-92)+ = (9-P)+ = (P-9)=0
	A GOOD SOURCE AT A DESCRIPTION OF THE PROPERTY



16. If  $S_1 = S_1 m$  of n terms  $S_2 = S_1 m$  of 2n terms  $S_3 = S_1 m$  of 3n terms
then,  $S_3 = 3(S_2 - S_1)$ 

11. If So, So, So, So, Sp core sums each rupto m terms of P A.P.'s whose first terms were 1,2,3, --- & Common differences wire 1,3,5. -- respectively them,

5, + 52 + 53+ --- + Sp = mp (np+1)

12. If Sum of first m terms of an A.P.

Vanishes (ie, becomes 0) then sum of next

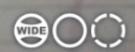
n terms = -an(m+n). a is a first torm of

m-1 'series.

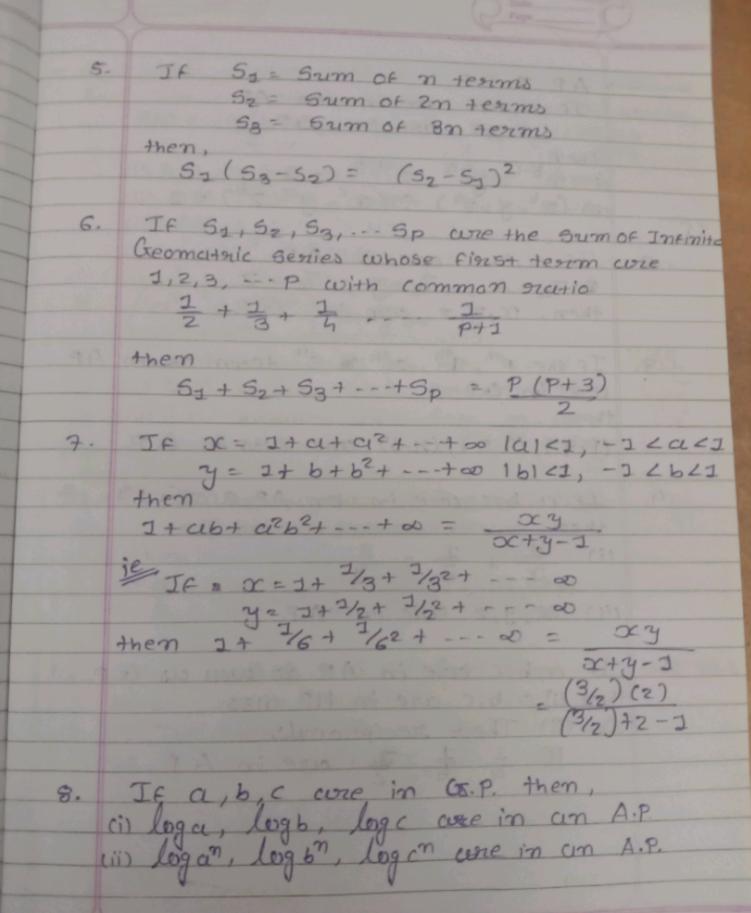
a to an American Storing of

The Town Town Town of Amen, 119 Tp = Vab (12) Tq = (ap) = 3. If To a , Theb, P = Product of GMEGO then

P2 (ab) 02 P= (ab) 1/2 P= (2×3) 72 = (643) = 85 = 32768 If S = Sum of n tenms P = Product of n terms R= Sum of reciprocal of n terms P2 (\$)" On P= (\$)" On P= V5". F" is P = GM OF 5m and pm 2,4,8 -> G.P.



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