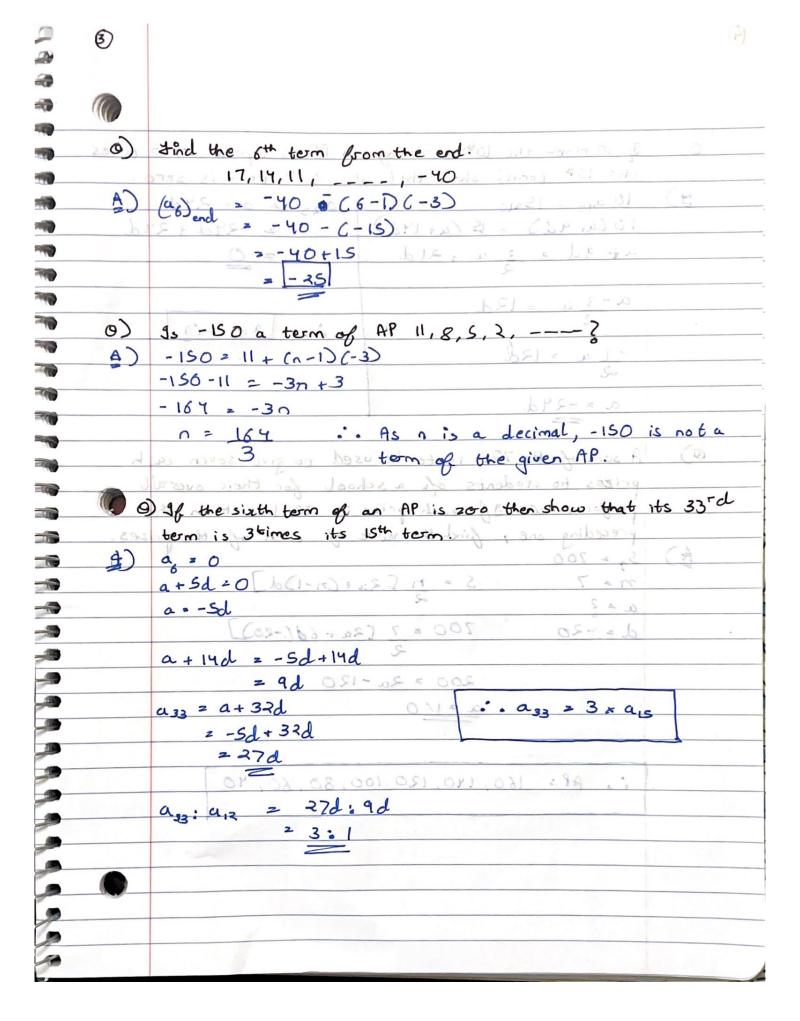
20				
-				
-0 (				
-		* ARITHMETIC PROGRESSIONS. *		
		An arithmetic progression is a list of numbers in which each term is		
7		obtained by adding a fixed number to the preceding term except the		
20	C	first form?		
76		225		
7	$\rightarrow$	The fixed number is called d = a a.		
7		the common difference (d)		
7		CONTINE "		
	<del>ا</del> ک	nt term of A.P: an = a + (n-1)d		
		Birst term common diff.		
	Q			
		Reverse: (an) = 1-6n-1)d		
	<b>%</b>	LUM OF FIRST n TERMS OF AN AP: S = n [-2a+ Cn-1)d]		
		THE WILL A MOTE MAIL WITH A STATE OF ALL		
		S= n [a+ b]		
	OTE;	If a, b and care in AP, OSA DELANA DELANA		
=		Aritmetic mean; b= a+c		
		2		
	<b>→</b>	The sure of the section of the secti		
-9		The sum of first in positive integers: Sn = n(n+1)		
	か	Dialla Tion of the February		
-	-,	S = Ca + da + a		
1		· · · · · · · · · · · · · · · · · · ·		
-	-	S = [ Ga+(n-1)d) + (Ra+(n-1)d) + (Ra+(n-1)d)		
-				
-		= n * [2a+(n-1)d]		
-		The state of the s		
-				
		5n = n (2a + (n-1)d)		
	9			
		111 6 60 60 5 5		



0)	3/ 10 times the 10th term of	an AP is equal to 15 times	
	the 15th term, show that i	ts 25th ferm is zero.	
CE	10 a. 2 15ais 6-30-	1 agg = a + 24d	
7	10 Ca+ 9d) = 15 Ca+ 14d)	2 -24d +24d	
	a+ 9d = 3 a + 21d	31401-20	
	2		
	a - 3 a = 12d		
	2 6 7 2 . 11 9 A	1 a 2 2 2 0	
		-ja-sall = cel - Ca	
	2	150-11 = -37 + 3	
	a = - 24d	OE- = 181-	
بة مدة هـ عا	As a is a Legimal -150	PALSO	
(0	A sum of Rs 700 is to be used to give seven cash		
<u> </u>	prizes to students of a sel	hool for their overall	
155 33 Tel	performance. If each prize is 20 less than the		
	preceding one, find the value	of each of the prizes.	
A)	( - 700		
	n=7 S= n [20	+ (n-Dd] 0 = 12 = 1	
	n = 2	UT 0	
	d=-20 700=7[	2a + 60(-20)]	
	2.	0+14/2 = -51+140	
	200 = 20	Service and the service and th	
	D = E = 200 . a = 160	433 = 6+328	
	1	z -5d+32d	
		2370 2000	
	:. AP: 160, 140, 120, 100, 80, 60, 40		
	· bP	23:45 = 2764	
	188 -		
	A STATE OF THE STA		
		and the second s	