SEQUENCES AND SERIES WORKSHEET

NAA	NE:				
Use the formulas provided to you to complete the following. Determine what type of sequence the following are and then complete the problem.					
1.	a=-5, d=4, n=9; find the n th term		2.	α =5, n=4, r=3; find the n^{th}	term
3.	a=3, d=-4, n=6; find the n th term		4.	a=-4, n=6, r=-2; find the n	th term
Find t 5.	he missing terms in each sequence. You are given to,, 54 (geometric)	what ty	pe of se	quence represents each o	ne.
6.	3,, 20 (arithmetic)				
7.	5,, 27 (arithmetic)				
8.	32,,, 162 (geometric)				
9.	, -10,,, 14 (arithmetic)				
10.	Find the $15^{\rm th}$ term for the arithmetic sequence -3, 3	1, 9,			
11.	Find the first 4 terms of the geometric sequence wi	th α=-6	and r= -	2/3	
Find 6	δ_n for each series described. You will need to dete	nmina	if the co	nias is anithmatis on coom	atnic
12.	160 + 80 + 40 + , n=6	13.		:-1/2, n=7	emc.
14.	a=13, d=-6, n=21	15.	d=-2/3	3, n=16, u _n =44	
Find " 16.	a" for each geometric series. S _n =-55, r=-2/3, n=5	17.	S _n =245	57, α=3072, r=-4	
Find t 18.	the first 3 terms of each arithmetic series. $a=14$, $u_n=-85$, $S_n=-1207$	19.	n=16, u	I _n =15 , S _n =-120	