Name:		Date:
Topic:		Class:
./ain Ideas/Questions	Notes	
Arithmetic Sequence		
Common Difference		
	Determine whether the c	omioncos are arithmetic semienco
Identifying an Arithmetic	Determine whether the sequences are arithmetic sequences If yes, identify the common difference.	
Sequence	1. 1, 5, 9, 13,	2. 1, 3, 5, 8,
	3. 8, 6, 4, 2,	4. -5, -8, -11, -14,
	5. 5, 10, 20, 40,	6. 7, 6, 5, 4,
Continuing	Given the arithmetic sequ	uence, find the next three terms.
Arithmetic Sequences	7. 9, 13, 17, 21,,	
Cooperious	8. 5, 2, -1, -4,,	
	98, -2, 4, 10,	
		nmetic sequence can be found
Arithmetic Sequence	using the following for	8 B B CL B II CL B
Formula	d =	a ₁ =
	10. 7, 13, 19, 25,	11. 30, 26, 22, 18,
Examples Write the rule for the nth term, then find a ₁₉ .		
/ men numer ed 20 -		1

//ain Ideas/Questions Notes			
	1211, -8, -5, -2	132, 0, 2, 4,	
•			
	1416, -21, -26, -31,	15. 101, 92, 83, 74,	
20011100		drop a penny off the edge of the cliff.	
Real Life Applications	The distance the penny will fall is 16 feet for the first second, 48 feet the next second, 80 feet the third second, and so on.		
HPPICOUTIONS			
	a. Write a formula to represent this sequence.		
* *			
	b. How far will the penny have traveled after 6 seconds?		
3	17. The total bank loan for Sarah's r	new car is \$15,265. The bank	
	automatically withdraws \$295.80		
	a. Write a formula to repres	ent this sequence.	
199			
	b. What will be the balance	of the loan after 2 years?	