Name	e:						_ Perio	od:			Score:	
HW:	3-2 HONOR	S: Wr	iting A	rithm	etic R	ecursi	ve & F	Explici	t Equa	<u>itions</u>		
	the slope of $(5, 7)$ and $(5, 7)$									(2,-5)	4. (-1,-5)	and (
a) Fin b) Ide	oroblems #5- ad the next 3 entify the con- rite a recursive	terms i	n each ate.	seque	nce.		e)) Circl	e wher	e you se	uation for each. The the constant rat ND explicit equat	
5.	x	1	2	3	4	5	6	7	8]		
	f(x)	3	8	13	18	23						
	b) constan	t rate:					_					
	c) recursiv	e equa	ition: _									
	d) explicit	equation	on:									<u> </u>
6.	$\frac{x}{f(x)}$	-2 92	-1 82	0 72	62	52	3	4	5			
	b) constan	t rate:										
	c) recursiv											_
	d) explicit	equatio	on:									_
7.		1 1			1 4					1		
	$\frac{x}{f(x)}$	3	1.5	0	-1.5	-3	6	7	8	_		
	J (2)		1.5		1.5							
	b) constan	t rate:					_					
	c) recursiv	e equa	ition: _									_

d) explicit equation:

For the remaining questions, determine if the sequence is arithmetic or not.

If **YES**, then write the recursive and explicit equation and answer the question provided. If **NO**, then you do not need to answer anything else.

8. -6, -13.9, -21.8, -29.7, ...

Arithmetic?

Recursive:

Explicit:

Find the 13th term:

9. $\frac{1}{2}$, $\frac{3}{4}$, $\frac{5}{8}$, $\frac{7}{16}$, ...

Arithmetic?

Recursive:

Explicit:

Find the 39th term:

10. -**10,** -**7,** -**4,** -**1,** ...

Arithmetic?

Recursive:

Explicit:

Find the 114th term:

11. -12.3, -9.7, -7.1, -4.5, ...

Arithmetic?

Recursive:

Explicit:

Find the -4th term:

For the remaining questions, determine if the sequence is arithmetic or not.

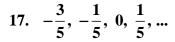
If **YES**, then write the recursive and explicit equation and answer the question provided. If **NO**, then you do not need to answer anything else.

12.	0.02, 1.08, 2.14, 3.2,	Arithmetic?	
	Recursive:		
	Explicit:		
	Find the -11 th term:		
13.	2, -3, 4, -5, 6,	Arithmetic?	
	Recursive:		
	Explicit:		
	Find the 17 th term:		
14.	21, 19, 17, 15,	Arithmetic?	
	Recursive:		
	Explicit:		
	Find the 44 th term:		
15.	$-\frac{1}{2}$, 0, $\frac{1}{2}$, 1,	Arithmetic?	
	Recursive:		
	Explicit:		
	Find the 17 th term:		
16.	-2, 4, 10, 16,	Arithmetic?	
	Recursive:		
	Find the 17 th term:		

For question #17, determine if the sequence is arithmetic or not.

If **YES**, then write the recursive and explicit equation and answer the question provided.

If **NO**, then you do not need to answer anything else.



Arithmetic?

Recursive:

Explicit:

Find the 17th term:

For the following questions:

- a) Find the next 3 terms in each sequence.
- b) Write a recursive equation.
- c) Write an explicit equation.

18.

x	86	87	88	89	90	91	92	93
f(x)	2.6	-1.1	-4.8	-8.5				

- **b**)
- c) _____

19.

x	-15	-14	-13	-12	-11	-10	-9	-8
f(x)	52	46	40	34				

- b) _____
- c) _____

20.	x	14	15	16	17	18	19	20	21
	f(x)	$\frac{1}{2}$	$1\frac{1}{4}$	2	$2\frac{3}{4}$	$3\frac{1}{2}$			

- b) _____
- c) _____