

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. $-6, -13.9, -21.8, -29.7, \dots$ Arithmetic? _____

Recursive: _____

Explicit: _____

Find the 13th term: _____

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

Recursive: _____

Explicit: _____

Find the 39th term: _____

10. $-10, -7, -4, -1, \dots$ Arithmetic? _____

Recursive: _____

Explicit: _____

Find the 114th term: _____

11. $-12.3, -9.7, -7.1, -4.5, \dots$ 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 -11th term: _____

13. **2, -3, 4, -5, 6, ...** Arithmetic? _____

Recursive: _____

Explicit: _____

Find the 17th term: _____

14. **21, 19, 17, 15, ...** Arithmetic? _____

Recursive: _____

Explicit: _____

Find the 44th term: _____

15. **$-\frac{1}{2}, 0, \frac{1}{2}, 1, \dots$** Arithmetic? _____

Recursive: _____

Explicit: _____

Find the 17th term: _____

16. **-2, 4, 10, 16, ...** Arithmetic? _____

Recursive: _____

Explicit: _____

Find the 17th 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.

17. $-\frac{3}{5}, -\frac{1}{5}, 0, \frac{1}{5}, \dots$

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) _____