

Assignment: T4-64 Sequences from Table

Use the directions from the notes to fill in the tables.

1.

x	$f(x)$
1	1
2	4
3	9
4	16
5	$f(5)$
...	...

a) To find the next term,
b) Next term in the table: $f(5) =$
c) Type of Sequence:
d) Recursive Rule:
e) Explicit Rule:
f) Type of Function:

2.

x	$f(x)$
0	3
1	1
2	-1
3	-3
4	$f(4)$
...	...

a) To find the next term,
b) Next term in the table: $f(4) =$
c) Type of Sequence:
d) Recursive Rule:
e) Explicit Rule:
f) Type of Function:

3.

x	$f(x)$
1	5
2	14
3	23
4	32
5	$f(5)$
...	...

a) To find the next term,
b) Next term in the table: $f(5) =$
c) Type of Sequence:
d) Recursive Rule:
e) Explicit Rule:
f) Type of Function:

4.

x	$f(x)$
0	-8
1	40
2	-200
3	1000
4	$f(4)$
...	...

a) To find the next term,
b) Next term in the table: $f(4) =$
c) Type of Sequence:
d) Recursive Rule:
e) Explicit Rule:
f) Type of Function:

5.

x	$f(x)$
1	-10
2	-20
3	-40
4	-80
5	$f(5)$
...	...

a) To find the next term,
b) Next term in the table: $f(5) =$
c) Type of Sequence:
d) Recursive Rule:
e) Explicit Rule:
f) Type of Function:

Each of the tables below represents an arithmetic sequence. Find the missing terms in the sequence. Show how you figured it out.

6.

x	$f(x)$
1	-3
2	
3	1

7.

x	$f(x)$
1	17
2	
3	
4	8

8.

x	$f(x)$
1	-2
2	
3	
4	
5	30

Each of the tables below represents a geometric sequence. Find the missing terms in the sequence. Show how you figured it out.

9.

x	$f(x)$
1	40
2	
3	640

10.

x	$f(x)$
1	14
2	
3	
4	112

11.

x	$f(x)$
1	12
2	
3	
4	
5	972

Review

Solve each inequality, write the answer in interval notation, and graph the solution.

12. $-2x + 6 > 8$

13. $-7 \leq 3x - 1 < 11$

14. $\frac{x}{2} < -1$ or $4x > 16$

