

READY, SET, GO!

Name _____

Date _____

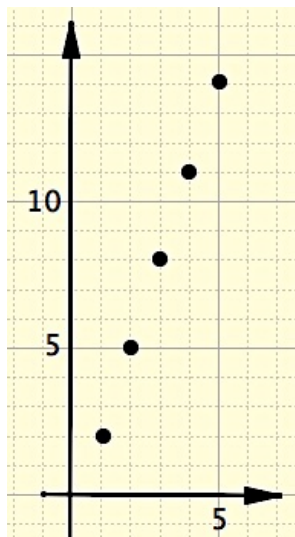
READY

Topic: Rates of change in a table and a graph

The same sequence is shown in both a table and a graph. Indicate on the table where you see the rate of change of the sequence. Then draw on the graph where you see the rate of change.

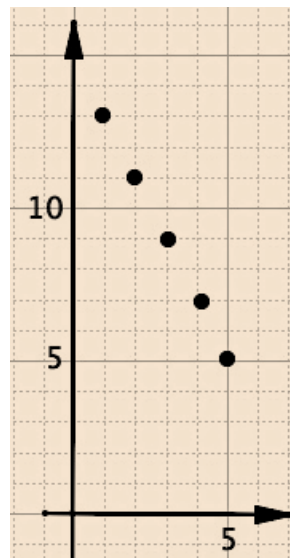
1.

n	$f(n)$
1	2
2	5
3	8
4	11
5	14



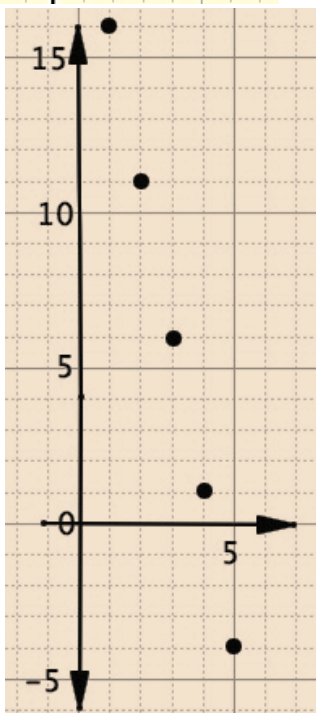
2.

n	$f(n)$
1	13
2	11
3	9
4	7
5	5



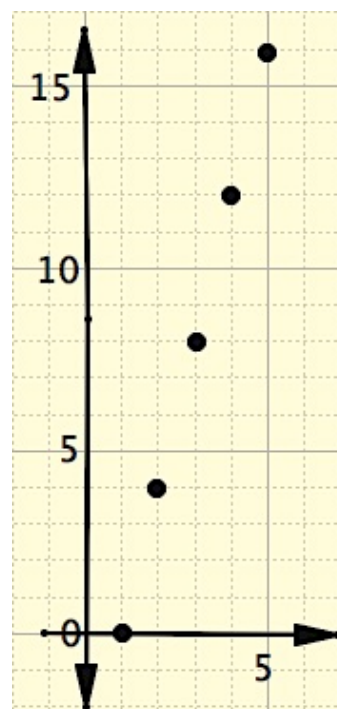
3.

n	$f(n)$
1	16
2	11
3	6
4	1
5	-4



4.

n	$f(n)$
1	0
2	4
3	8
4	12
5	16



SET

Topic: Recursive and explicit functions of **geometric** sequences

Below you are given various types of information. Write the recursive and explicit functions for each geometric sequence. Finally, graph each sequence, making sure you clearly label your axes.

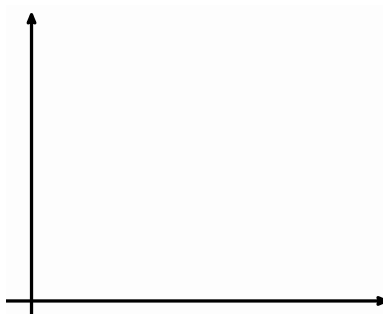
5. 2, 4, 8, 16, ...



Recursive: _____

Explicit: _____

6.

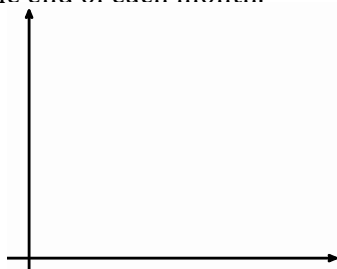


Time (days)	Number of cells
1	3
2	6
3	12
4	24

Recursive: _____

Explicit: _____

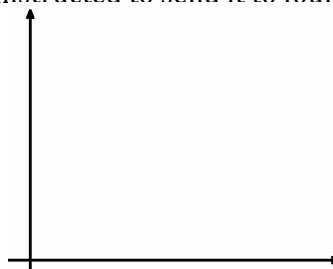
7. Claire has \$300 in an account. She decides she is going to take out half of what's left in there at the end of each month.



Recursive: _____

Explicit: _____

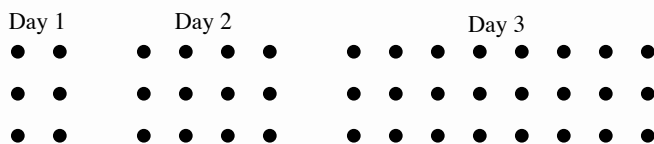
8. Tania creates a chain letter and sends it to four friends. Each day each friend is then instructed to send it to four friends and so forth.



Recursive: _____

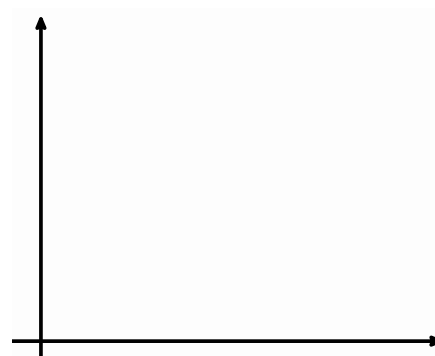
Explicit: _____

9.



Recursive: _____

Explicit: _____



GO

Topic: Recursive and explicit functions of **arithmetic** sequences

Below you are given various types of information. Write the recursive and explicit functions for each **arithmetic sequence**. Finally, graph each sequence, making sure you clearly label your axes.

10. 2, 4, 6, 8, ...



Recursive: _____

Explicit: _____

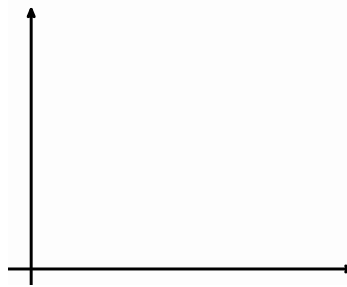
12. Claire has \$300 in an account. She decides she is going to take out \$25 each month.



Recursive: _____

Explicit: _____

11.

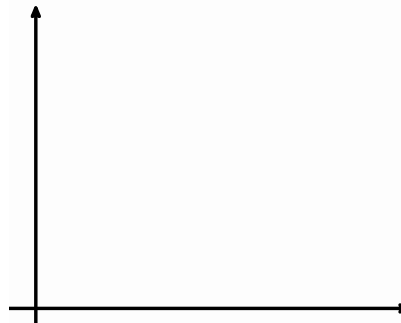


Time (days)	Number of cells
1	3
2	6
3	9
4	12

Recursive: _____

Explicit: _____

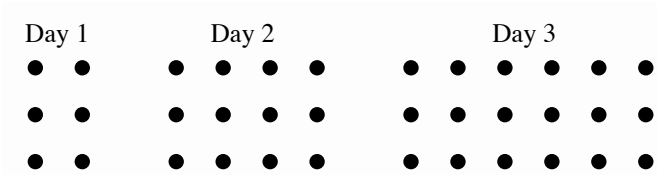
13. Each day Tania decides to do something nice for 2 strangers. What is the relationship between the number people helped and days?



Recursive: _____

Explicit: _____

14.



Recursive: _____

Explicit: _____

