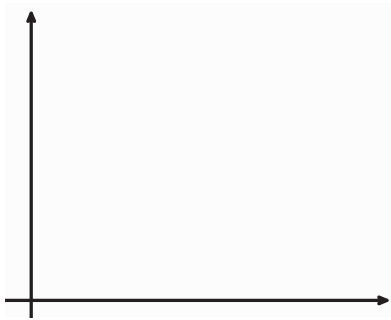


**SET**

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.**

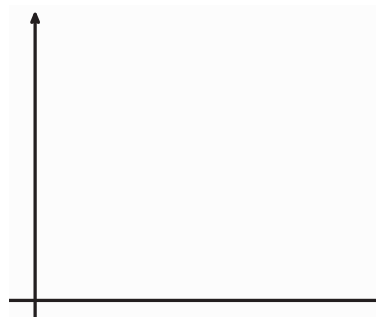
5. 2, 4, 8, 16, ...



Recursive: \_\_\_\_\_

Explicit: \_\_\_\_\_

6.



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

Recursive: \_\_\_\_\_

Explicit: \_\_\_\_\_

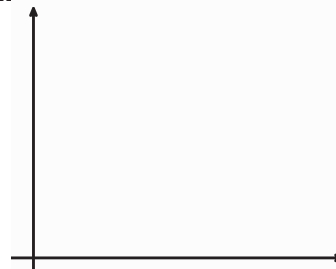
7. Claire has \$300 in an account. She decides she is going to take out half of what's left in there at the end of each month.



Recursive: \_\_\_\_\_

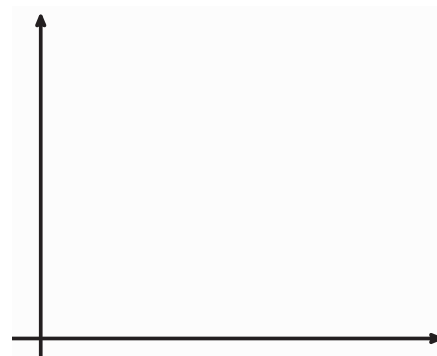
Explicit: \_\_\_\_\_

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: \_\_\_\_\_



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.

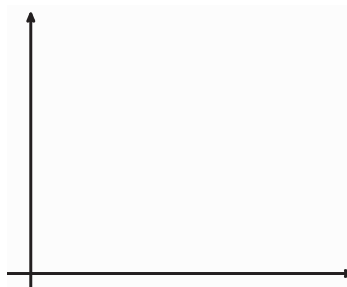
10. 2, 4, 6, 8, ...



Recursive: \_\_\_\_\_

Explicit: \_\_\_\_\_

11.



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

Recursive: \_\_\_\_\_

Explicit: \_\_\_\_\_

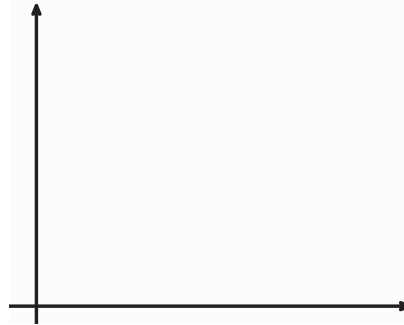
12. Claire has \$300 in an account. She decides she is going to take out \$25 each month.



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: \_\_\_\_\_

