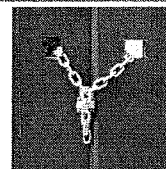


Name: _____

Sequences 3.4

Ready, Set, Go!



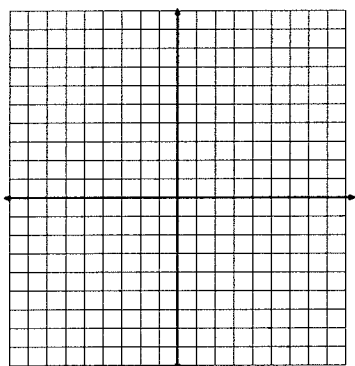
© 2012 www.flickr.com/photos/mag3737

Ready

Topic: Write the equation of a line given two points.

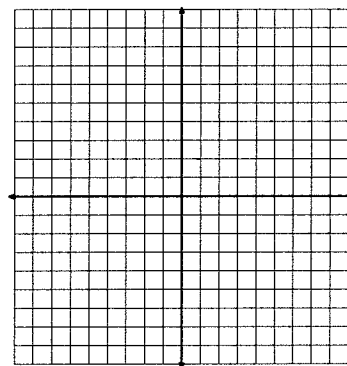
Graph each pair of points, draw a line that goes through both points, and write an equation of that line.

1. $(5, 2)$ and $(7, 0)$



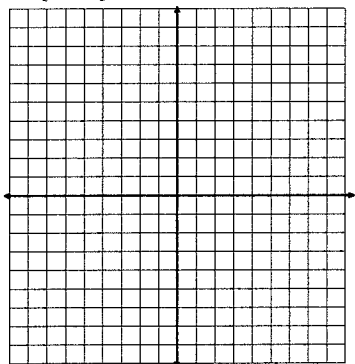
Equation: _____

2. $(-4, 2)$ and $(6, 7)$



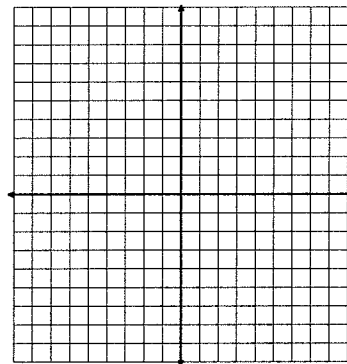
Equation: _____

3. $(3, 0)$ and $(0, 4)$



Equation: _____

1. $(2, -4)$ and $(2, 6)$



Equation: _____

5. Write the equation of the line that passes through the points $(2, 2)$ and $(8, 8)$ without the help of a graph.

© 2012 Mathematics Vision Project | MVP

In partnership with the Utah State Office of Education

Licensed under the Creative Commons Attribution-NonCommercial-ShareAlike 3.0 Unported license

Name: _____

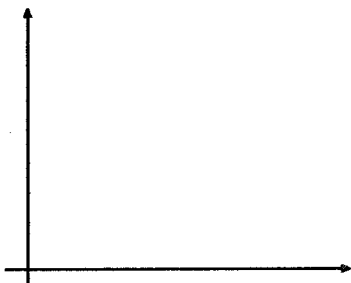
Sequences | 3.4

Set

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.

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

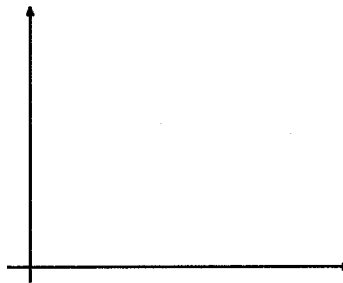


Recursive: _____

Explicit: _____

7.

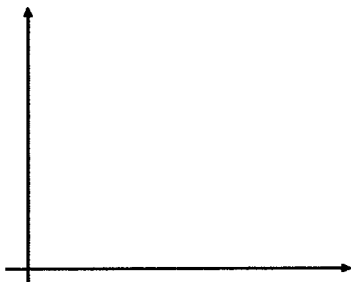
Time (days)	Number of cells
1	3
2	6
3	9
4	12



Recursive: _____

Explicit: _____

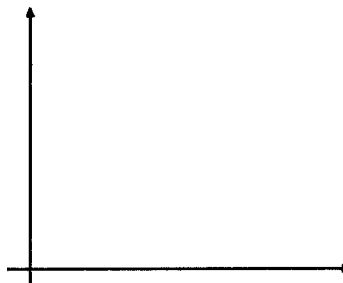
8. Claire has \$300 in an account. She decides she is going to take out \$25 each month.



Recursive: _____

Explicit: _____

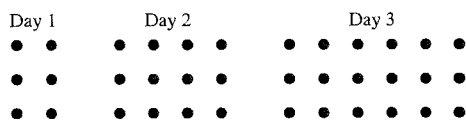
9. Each day Tania decides to do something nice for 2 strangers.



Recursive: _____

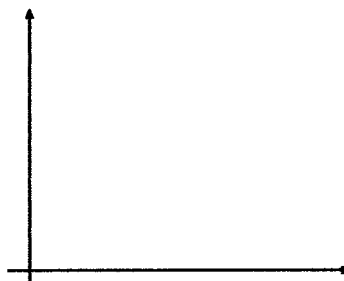
Explicit: _____

10.



Recursive: _____

Explicit: _____



© 2012 Mathematics Vision Project | MVP

In partnership with the Utah State Office of Education

Licensed under the Creative Commons Attribution-NonCommercial-ShareAlike 3.0 Unported license

Name: _____

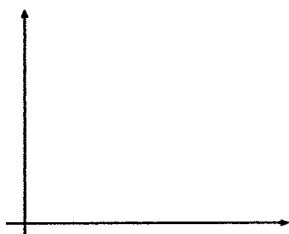
Sequences | 3.4

Go

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.

11. 2, 4, 8, 16, ...

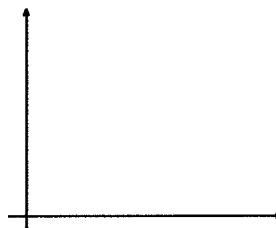


Recursive: _____

Explicit: _____

12.

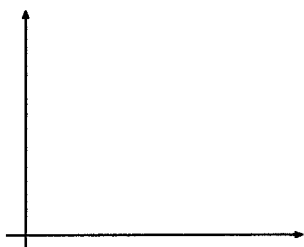
Time (days)	Number of cells
1	3
2	6
3	12
4	24



Recursive: _____

Explicit: _____

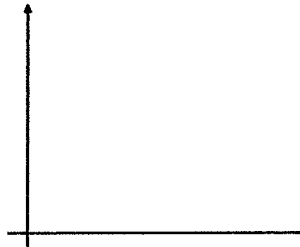
13. Claire has \$300 in an account. She decides she is going to take out half of what's left in there at the end of each month.



Recursive: _____

Explicit: _____

14. 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.



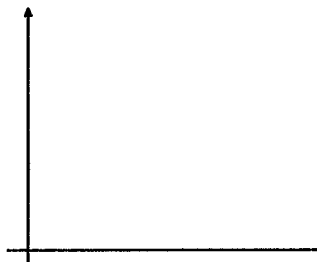
Recursive: _____

Explicit: _____

15. Day 1 Day 2 Day 3

Recursive: _____

Explicit: _____



Need Help? Check out these related videos:

Find equation of line <http://patrickimt.com/find-the-equation-of-a-line-using-point-slope-form/>

© 2012 Mathematics Vision Project | MVP

In partnership with the Utah State Office of Education

Licensed under the Creative Commons Attribution-NonCommercial-ShareAlike 3.0 Unported license