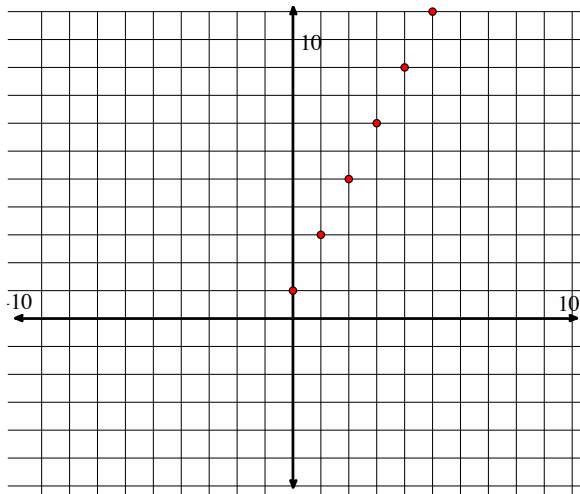


4.2 Sequences Vs. Linear/Exponential Relationships

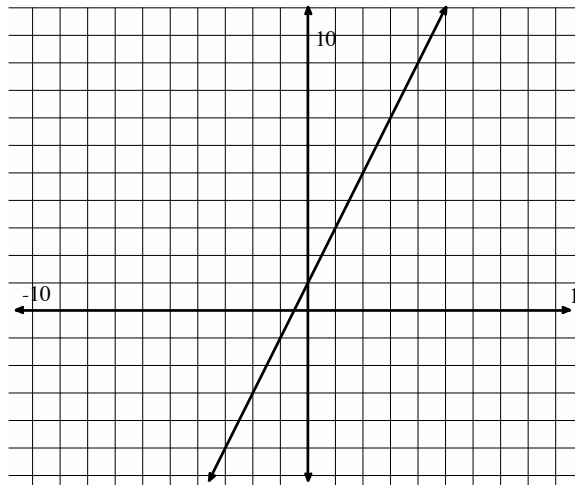
A Solidify Understanding Task

In each problem below, identify which relationship is a sequence and which is not. If it is a sequence, state what type (arithmetic/geometric) of sequence it is and how you know. If not, state why not.

1a.



1b.



2a.

x	y
-2	-9
-1	-4
1.5	8.5
2.5	13.5

2b.

x	y
0	1
1	6
2	11
3	16

3a.

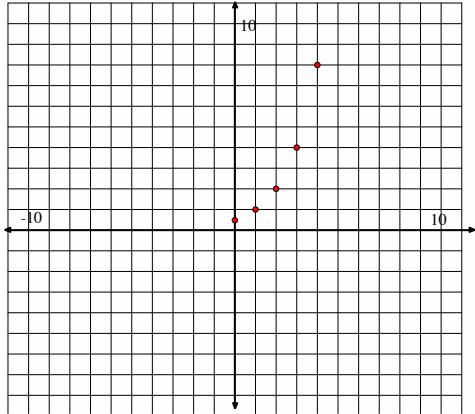
$$f(1) = 3$$
$$f(n) = f(n - 1) + 4$$

3b.

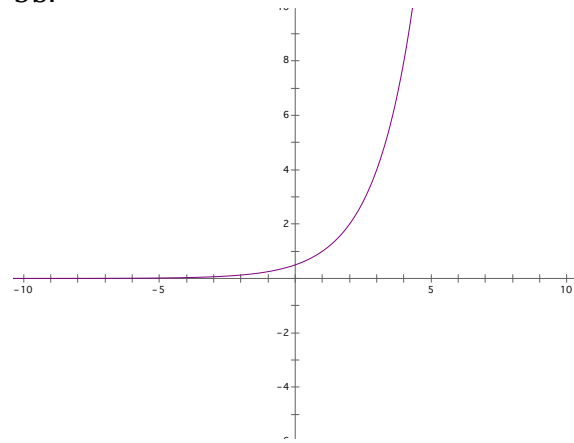
$$f(x) = 4x - 1$$

4. What are the key elements that make a relationship a sequence?

5a.



5b.



6a.

x	y
0	3
1.5	24
3	192
5	3072

6b.

x	y
0	3
1	12
2	48
3	192

7a.

$$f(0) = 7$$
$$f(x) = f(x - 1) * 2$$

7b.

$$f(x) = 7(2)^x$$

8. What does Linear mean?

9. What does Exponential mean?