

HW 4-4

Sec 1

More Geometric Sequences

Unit 4

For the following Geometric Sequences:

a) Recursive equation

b) Explicit equation

c) Find the given term of the geometric sequence

1. 3, 6, 12, ...

a) Recursive: _____

b) Explicit: _____

c) 8th term: _____

2. -100, -50, -25, ...

a) Recursive: _____

b) Explicit: _____

c) 5th term: _____

3. 81, 27, 9, ...

a) Recursive: _____

b) Explicit: _____

c) 7th term: _____

4.

x	6	7	8	9	10	11	12
$f(x)$	-2	-6	-18				

a) Recursive: _____

b) Explicit: _____

c) 15th term: _____

5.

x	-5	-4	-3	-2
$f(x)$	2.5	3.25	4.225	5.4925

a) Recursive: _____

b) Explicit: _____

c) 3rd term: _____

For the remaining questions, write a recursive and explicit equation.

6.

x	$f(x)$
-9	3
-8	12
-7	48

7.

x	$f(x)$
5	1.6
6	6.4
7	25.6

8.

x	$f(x)$
3	-10
4	-8
5	-6.4

Use the recursive equation to create the original sequence giving the first 6 terms.

9. $f(x) = 2f(x-1); f(1) = -5$

x	1	2	3	4	5	6
$f(x)$						

10. $f(x) = f(x-1) \cdot \frac{1}{2}; f(1) = 12$

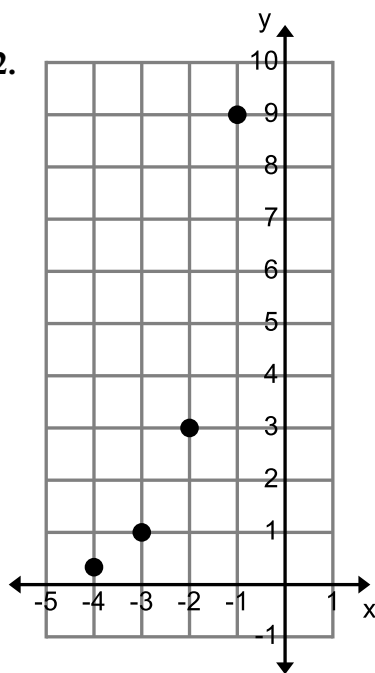
x	1	2	3	4	5	6
$f(x)$						

11. $f(x) = 3f(x-1); f(1) = -2$

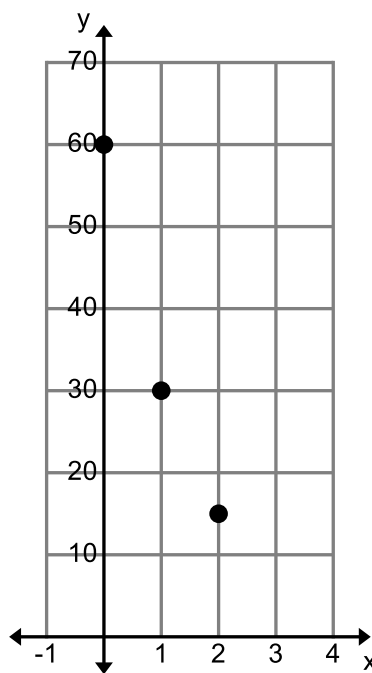
x	1	2	3	4	5	6
$f(x)$						

Write a recursive and explicit equation.

12.



13.



14.

