ΔCS	1
AUS	

Name: ______ Period: ____ Date: _____

Assignment 1.4 – Sequences

Use the given information to decide which equation will be the easiest to use to find the indicated value. Find the value and explain your choice.

1. Explicit Equation: y = 3x + 7

Recursive: new = previous term + 3

Find the value of the 4th term:

term #	1	2	3	4
value	10	13	16	

Explanation:

2. Explicit Equation: y = 3x + 7Recursive: new = previous term + 3

Find the value of the 50th term:

c. c									
term # 1		2	•••	50					
value	10	13	•••						

Explanation:

3. Explicit Equation: y = 10x - 2Recursive: $new = previous \ term + 10$

Find the value of the 9th term:

•	ind the value of the 3 term.									
	term #	1	2	•••	8	9				
	value	8	18		78					

Explanation:

4. Explicit Equation: y = 10x - 2Recursive: new = previous term + 10

Find the value of the 4th term:

 ind the value of the form						
term #	1	2	•••	8	•••	20
value	8	18		78		

Explanation:

5. The value of the 4th term is 0 The sequence is decreasing by 2 at each step.

Explicit Equation: y = -2x + 8Recursive: new = previous term - 2

Find the value of the 5th term: _____ Explanation: 6. The value of the 4th term is 0 The sequence is decreasing by 2 at each step.

Explicit Equation: y = -2x + 8Recursive: new = previous term - 2

Find the value of the 8th term: _____ Explanation:

Refresh Your Memory

Reading a table and using function notation.

- a) Use the given table to identify the indicated value for *n*.
- b) Then using the value for *n* that you determined in part a, use the table to find the indicated value for part b.

n	1	2	3	4	5	6	7	8	9	10
f(n)	-8	-3	2	7	12	17	22	27	32	37

- 7. a) When f(n) = 12, what is the value in n?
 - b) What is the value of f(n-1)?
- 8. a) When f(n) = 17, what is the value in n?
 - b) What is the value of f(n-1)?
- 9. a) When f(n) = 32, what is the value in n?
 - b) What is the value of f(n + 1)?
- 10. a) When f(n) = 2, what is the value in n?
 - b) What is the value of f(n + 3)?
- 11. a) When f(n) = 27, what is the value in n?
 - b) What is the value of f(n-6)?
- 12. a) When f(n) = -8, what is the value in n?
 - b) What is the value of f(n + 9)?