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## ALGEBRA I // MODULE 1 1.4 SEQUENCES-1.4 READY, SET, GO! Name Period Date READY Evaluate the given equation for the indicated function values. 2. f(n) = -2n + 13. f(n) = 6n - 34. f(n) = -n1. f(n) = 5n + 8f(10) =f(-5) =f(4) =f(9) =f(-1) =f(-2) =f(0) =f(-11) =7. $f(n) = 10^n$ 5. $f(n) = 5^n$ 6. $f(n) = 3^n$ 8. $f(n) = 2^n$ f(4) =f(6) =f(2) =f(0) =f(3) =f(1) =f(0) =f(5) =**SET**

Find the next 3 terms in each sequence. Identify the constant difference. Write a recursive function and an explicit function for each sequence. Circle where you see the common difference in both functions. (The first number is the 1st term, not the 0th term). 9 A)  $3 \ 8 \ 13 \ 18 \ 23$ B) Common Difference:

9. A)	5, 8, 15, 18, 25, <u>, , , , , , , , , , , , , , , , , , </u>	B) Common Difference:
C)	Recursive Function:	D)Explicit Function:
10. A)	11,9,7,5,3,,,	B) Common Difference:
C)	Recursive Function:	D)Explicit Function:
11. A)	3, 1.5, 0, -1.5, -3,,,	B) Common Difference:
C)	Recursive Function:	D)Explicit Function:

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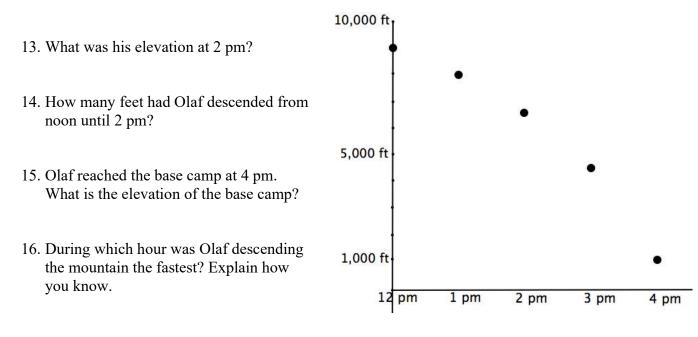
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ALGEBRA I // MODULE 1 SEQUENCES – 1.4

GO

Olaf is a mountain climber. The graph shows Olaf's location on the mountain beginning at noon. Use the information in the graph to answer the following questions.

12. What was Olaf's elevation at noon?



17. Is the value of f(n) the time or the elevation?

