READY, SET, G	O! Name		Period	Date
READY Topic: Distributive Property Simplify the following expr	essions			
1. $3(2x + 7)$		2. $-12(5x - 4)$		
3. 5a(-3a + 13)		4. $9x(6x - 2)$		
5. $\frac{2x}{3}(12x+18)$	6. $\frac{4a}{5}(10a - 25)$	ib)	7. $\frac{-4x}{11}(121x+2)$	22)

SET

Topic: Recognizing Linear Exponential and Quadratic Functions

b.

In each set of 3 functions, one will be linear and one will be exponential. One of the three will be a new category of function. List the characteristics in each table that helped you to identify the linear and the exponential functions. What are some characteristics of the new function? Find an explicit and recursive equation for each.

8. Linear, exponential, or a new kind of function?

а
u.

x	f(x)
6	64
7	128
8	256
9	512
10	1024

Type and characteristics?

Explicit equation:

Recursive equation:

x	f(x)
6	36
7	49
8	64
9	81
10	100

Type and characteristics?

Explicit equation: Recursive equation:

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x	f(x)
6	11
7	13
8	15
9	17
10	19

Type and characteristics?

Explicit equation:

c.

Recursive equation:



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SECONDARY MATH II // MODULE 1 QUADRATIC FUNCTIONS - 1.1

, 1	,
x	f(x)
-2	-17
-1	-12
0	-7
1	-2
2	3

t t	unction?	
	x	f(x)
	-2	1/25
	-1	1/5
	0	1
	1	5
	2	25

Type and characteristics?	

Explicit equation:

Recursive equation:

Explicit equation:

х

-2

-1

0

1

2

Type and characteristics?

f(x)

9

6

5

6

9

f.

10. Graph the functions from the tables in #8 and #9. Add any additional characteristics you notice from the graph. Place your axes so that you can show all 5 points. Identify your scale. Write your explicit equation above the graph.

a. Equation:	b. Equation:	c. Equation:			
d. Equation:	e. Equation:	f. Equation:			
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d. e.

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Type and characteristics?

Explicit equation:

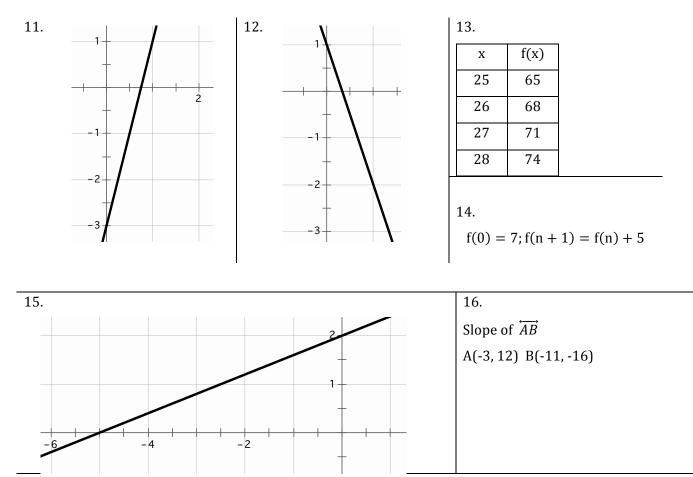
Recursive equation:

Recursive equation:

GO

Topic: Rates of Change

Identify the rate of change in each of the representations below.



17. George is loading freight into an elevator. He notices that the weight limit for the elevator is 1000 lbs. He knows that he weighs 210 lbs. He has loaded 15 boxes into the elevator. Each box weighs 50 lbs. Identify the rate of change for this situation.

18.						19.
Independent variable	4	5	6	7	8	
Dependent variable	5	5.5	6	6.5	7	

f(-4) = 24 and f(6) = -36

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