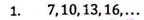


Exponential: y=(stat) (ratio)

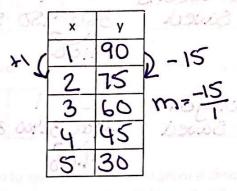
For each of the following, complete the table, then write an explicit equation.



			Life of 194
	x	У	
FY	1	7	123
7	12	10	K.
	3	13	m=3
	4	16	T
	5	19	
10	、	2( v	17

2. 90, 30, 
$$10, \frac{10}{3}$$
 ...

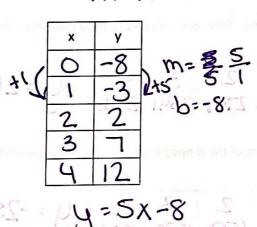
- 200		
×	Y	060
1	90	7.1
2	30	123
3	10	1=
4	10/3	HIC.
5	10/9	Y-1
4 = 9	0(3)	) \^-1
J,	1	5



4. 
$$f(1) = 16$$
  
 $f(n) = -3f(n-1)$ 

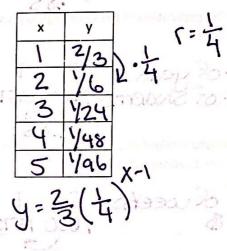
У	
16	
-48	62
144	1 - 0
432	
1296	-
	-48 144 432

5. 
$$f(0) = -8$$
  
 $f(n) = f(n-1) + 5$ 



$$f(1) = \frac{2}{3}$$

$$f(n) = \frac{1}{4}f(n-1)$$



Slope = 
$$\frac{-5}{2}$$
 and y-intercept (0,7)

			. / .
	x	у -	m 5
×2,	0	AX	2
7	2	2	K-2
	4	-3	, 1
	6	-8	· JOU,
Ì	8	-13	
_			_

	X	y	) P
	0	4	3.5
	) in [	20	L
	2	100	کم
-	1-3	500	S Pass
	4	2500	x
	4=	415	

Slope = -3 and point 
$$(-2,6)$$

	×	, y	2.00 230
(	-2	6	)-3
7	-1	3	2 4-int
J.	1	-3	72009U 70
	2	-6	
(	y=(	0-3	(X+2)

For each situation, identify the 2 variables, label and complete the table, then write an explicit equation.

10. Savannah is saving money to buy her first car. She has \$350 and plans to earn \$100 per week at her part time job.

	Hornoks	0	1	2	3	4	ı
l	3 Swed	350	450	220	620	750	C

X

X

X

(om) (+2+3)=4

11. Jiovanni is investing for retirement. He has \$30,000 and is investing in an account that promises to earn 8% interest.

2	# of years	0	1	2	3	4
	3 Saved	39000	32400	34992	37791	40814

12. Arianna is trying to reduce the amount of trash she sends to the landfill. She threw out 47 pounds of garbage this month. She plans to reduce the amount by 15% every month.

13. The population of Leesville High is growing. This year, there were 2600 students. The population is increasing 3% every year.

1 1 1	15		0 6%	Jr. ¥ /		
# of years	0	1	12:0	3.	4	
# of Students	2600	2678	2758	2841	2926	

14. Keisha worked all summer and saved most of the money she earned. When school started, she had \$1600 saved. She spends about \$25 per week.

# 851	seeks	0	, li	2	3	9.
\$	A T	1600	1575	1220	1525	1500

15. Jamal is working on a science project about plant growth. The first week, the plant measured 3.5 inches. Since then, the plant has grown 0.25 inches per week.

# of weeks	1	2	3	14	5
inches	3.5	3.75	4	4.25	4.5

$$y = .25(x-1) +3.5$$
  
 $y = 3.5 + .25(x-1)$ 

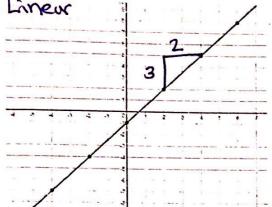
16. Samantha bought a new car for \$34,000. The value of the car depreciates 6% per year.

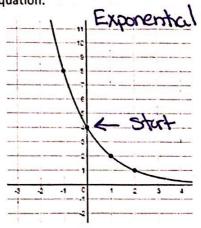
X # of years	0	-1	2	3	401
4 Valvery Cur	34,000	31960	30042	28239	5P2A2

.94

For each graph, complete the table of values, then write an explicit equation.







	x	У	11=+3x-1
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	0	-1	
	2	2	
	11	_	

x	У	1
-1	8	
0	4	N
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2	1	7
3	1/2	1

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	m=-4
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C	)	20	).3 x
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2		180	4=20(3)
3	)	540	J
4		1620	