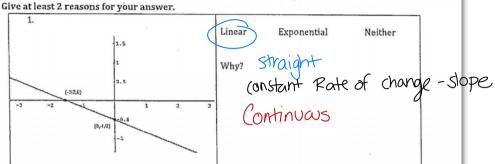
2.4 Linear, Exponential or Neither?

A Practice Understanding Task

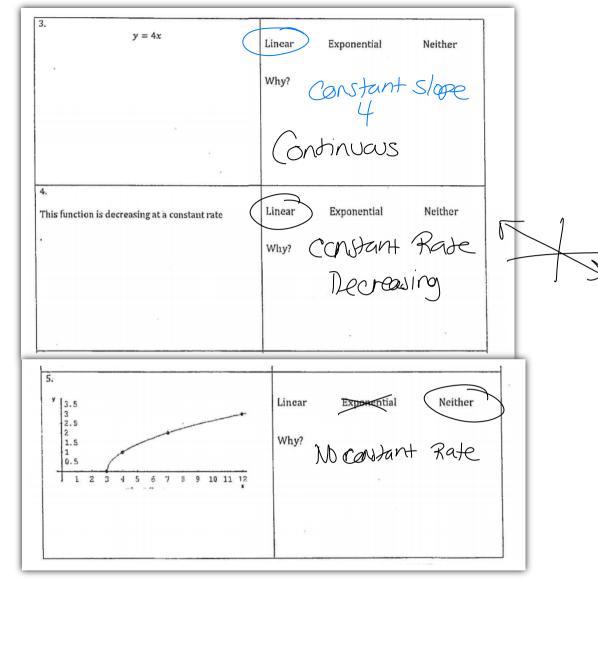
C SY John Shortland
https://illexr/p/storeA

For each representation of a function, decide if the function is linear, exponential, or neither.

Give at least 2 reasons for your answer.

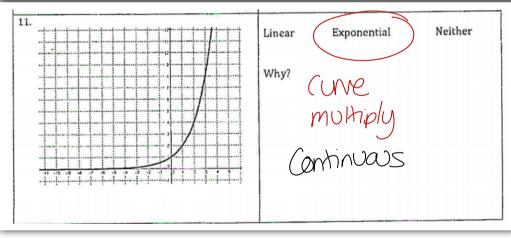


2. Tennis Tournament						Linear Exponential Neither
Rounds	1	2	3	4	5	Why?
Number of Players left	64	32	16	8	4	Why? Discrete . (uved x \frac{1}{2}
here are 4	player	s remai	ning afte	er 5 rou	ınds	1. X 5
						1



Neither	
slope or	Rate
Neither	
Neither	
constant Rate of	
constant Rate of (hange	

Height in Inches	Shoe Size	Linear Exponential Neither
74	13	
70	9	why? no constant slope
67	11	OR Ratio
53	4	OP Ratio
58	7	OF 114110
.0. The number of cell pho unction of years, if the ncreasing by 75% each		Linear Exponential Neither Why? harease by / -> not same # everythm Discrete -> people + Phones



12. The time it takes you to get to work as a function the speed at which you drive	
	Why? Speed on charge
	Why? Speed on charge Usually constant
	Continuous
$y = 7x^2$	Linear Exponential Neither
*	Why? Quadratic
14. Each point on the graph is exactly 1/3 of the previous point.	Linear Exponential Neither
previous point.	Why? Muthply by 1/3 Cove
	Cure

15. $f(1) = 7, f(2) = 7, f(n) = f(n-1) + f(n-2)$	Linear Exponential Neither
	No consant Rate
	012 multiply Discrete
16. $f(1) = 1, f(n) = \frac{2}{3}f(n-1)$	Linear Exponential Neither
	Why? Mutiply by =
	Continuous