LESSON: Linear & Non-Linear Functions

Function Unit

HOMEWORK

						Hour:	
	ks at the table a non-linear f					disagrees an	d
х	0	1	2	3	4	5	6
у	0	2	8	18	32	50	72
	ks at the table linear functio				tion. Arjun d	isagrees and	t <mark>hinks</mark>
v	0	1	2	2	1	5	6
y y	5	7	9	3 11	13	5 15	
у		7	9	11		-	
у	5	7	9	11		-	17

Laila pays \$20 each month to join an afterschool club. If Laila made a graph of the amount of 5. money she has spent from September to June, would the graph be linear? Why or why not?

LESSON: Linear & Non-Linear Functions

Function Unit

Determine if each function representation is linear or non-linear and explain why.

	x	-1	0	1	2
7.	y	4	2	0	-2

Create an X/Y Chart from each function, and determine if each function representation is linear or non-linear and explain why.

9.
$$y = \frac{3}{4}x - 7$$

10.
$$a = -b + 2$$

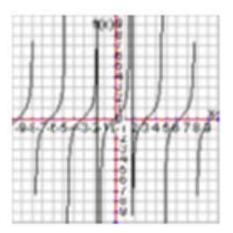
11.
$$c = 2d^3 - 1$$

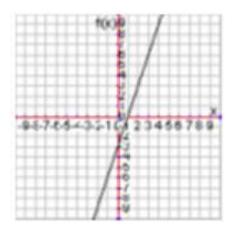
$$y = x^2 + 3x$$

LESSON: Linear & Non-Linear Functions Function Unit

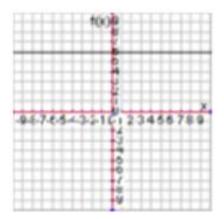
Determine if each function representation is linear or non-linear and explain why.

14.





13.



96.76.54 3.70 3.0458.78 9

15.

16.

LESSON: Linear & Non-Linear Functions Function Unit

Determine if each function representation is linear or non-linear and explain why.

Your age based 17. on the date Input: Hours worked at hourly wage

Output: Money made

Your Xbox gamer score based on the day of week

19.

21.

Input: Time falling
20. Output: Speed

Input: Time in air
Output: Height of an
angry bird

Your weight based on the day of the year