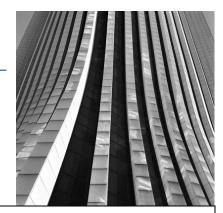
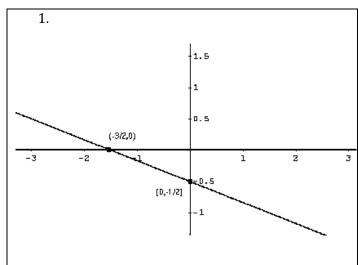
## 4.4 Linear, Exponential or Neither?

A Solidify Understanding Task

3.

For each representation of a function, decide if the function is linear, exponential, or neither. **Give at least 2 reasons for your answer.** 





2.

Rounds	1	nnis To	3	4	5
Number of Players left	64	32	16	8	4

There are 4 players remaining after 5 rounds.

5.

y | 3.5
3
2.5
2
1.5
1
0.5

y = 4x

4.

10 11

This function is decreasing at a constant rate

A person's height as a function of a person's age (from age 0 to 100)

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7.

-3x = 4y + 7

8.

X	у
-2	23
0	5
2	-13
4	-31
6	-49

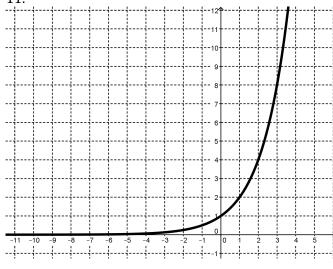
9

Height in Inches	Shoe Size	
62	6	
74	13	
70	9	
67	11	
53	4	
58	7	

10.

The number of cell phone users in Centerville as a function of years, if the number of users is increasing by 75% each year.

11.



12.

The time it takes you to get to work as a function the speed at which you drive

$y = 7x^2$	14. Each point on the graph is exactly 1/3 of the previous point.
15. $f(1) = 7, f(2) = 7, f(n) = f(n-1) + f(n-2)$	16. $f(0) = 1, f(n+1) = \frac{2}{3}f(n)$