

LESSON 21: Comparing Functions

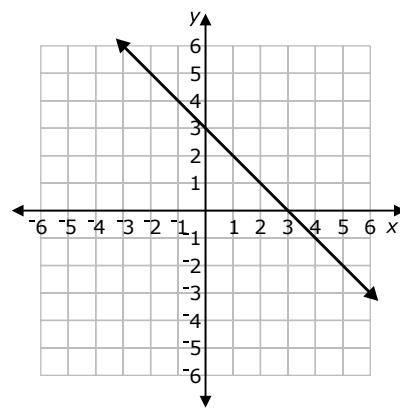
Homework

Name _____ Date _____

Directions: For Questions 1 – 8, identify the rate of change for each function and determine if the function is linear or non-linear. Explain why or why not.

$$y = 6x - 10$$

1. What is the rate of change?
2. Is the function linear or non-linear? Why?



3. What is the rate of change?
4. Is the function linear or non-linear? Why?

x	y
-1	-5
0	-3
1	-1
2	1

5. What is the rate of change?
6. Is the function linear or non-linear? Why?

$$y = 5x^2 - 10$$

7. What is the rate of change?
8. Is the function linear or non-linear? Why?

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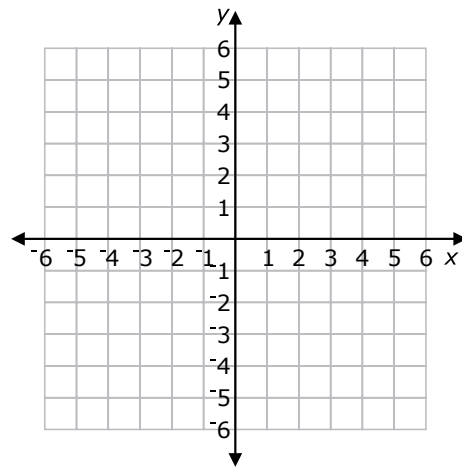
Directions: For Questions 9 and 10, create a table of values, sketch a graph and identify whether the function is linear or non-linear. Explain why or why not.

9. $y = 3x + 2$

x	y
-1	
0	
1	
2	

Linear or Non-linear?

Why:



10. $y = x^2 + 1$

x	y
-1	
0	
1	
2	

Linear or Non-linear?

Why:

