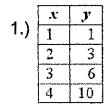
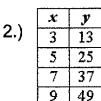
## Compute....

Decide whether each relation represents a linear relationship (L) or a non-linear relationship (N).

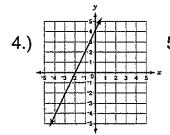


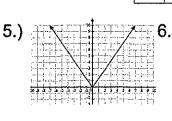


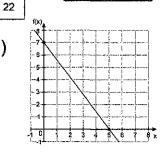
3.)	x	У
	1	2
	2	7
	3	12

5

4.	х	y
4.)	-1	-3
	-7	2
	-13	7
	-20	-2







7.) 
$$y = x^2$$

8.) 
$$y = 9x$$

9.) 
$$y = x + 2$$

## Justify....

2.) Explain why the table to the right is or is not linear.

x	3
-1	<b>-</b> -5
2	4
3	7
4	10

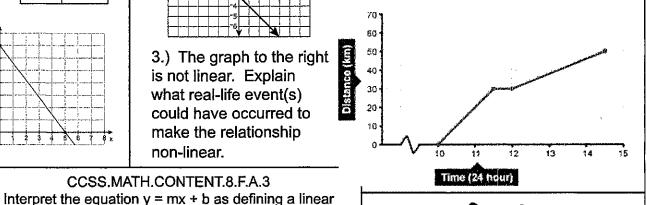
3.) The graph to the right is not linear. Explain what real-life event(s) could have occurred to make the relationship non-linear.

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function, whose graph is a straight line; give examples of

functions that are not linear.

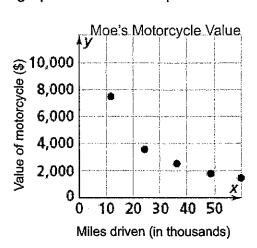
1.) Explain why the graph below is or is, not linear.



Create....

## Apply....

1.) The graph below shows the value of Moe's motorcycle given the number of thousands of miles driven. Use the graph to answer the questions.



- a. Is the value of the graph linear or non-linear? What does that mean in terms of its value?
- b. What price would you predict that Moe purchased the bike for if it had zero miles driven?

For each real-life linear relationship below describe something that could happen to make the relationship non-linear.

