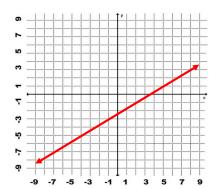


Direct Variation and Function Notation

Name _____

Does this line represent a Direct Variation?
Explain your answer.



No. A direct Variation has a y-Intercept of 0. This line has a y-Intercept of -2.

2. Is the relationship between x and y a Direct Variation?

X	_	-1	•	1	2	3	4	5	
У	-3	-1.5	0	1.5	3	4.5	6	7.5	
							yes		

Create an equation in Function form for the relationship between x and y described in the table from Question 2.

f(x) = 1.5x

4. What is the Constant of Variation for this relationship: 4x + y = 0

-4

A line passes through the point (0, 3). Can you determine whether the line represents a Direct Variation? How?

All Direct Variations go through the Origin, and one point is always (0, 0). Since this is a straight line, there can only be one y value for an x value of zero, so the line does not include (0, 0), and is not a Direct Variation.

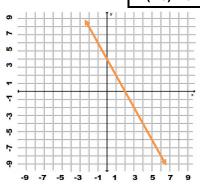
6. Evaluate this function for x = 2.5:

5.

$$f(x) = 3x - 1.5$$

f(2.5) = 6

7. Graph the function f(x) = 4 - 2x



8. What is the Constant of Variation for the function f(x) = 4x

4

9. Is this a Direct Variation?

х	У
0	1
3	7
6	13

no