Name:	Date:
Topic:	Class:

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Main Ideas/Questions	Notes/Examples				
	Equations that represent functions are often written in function notation .				
FUNCTION	y = 4x - 1				
NOTATION	this is read as				
	• is the	and is the			
FVALUATINO	Function notation is especially useful for finding a value in the range that corresponds to a certain domain value.				
EVALUATING	Example: If $f(x) = 4x - 1$, find $f(-7)$.				
Functions					
	Evaluate each function for the given value.				
EVAMDLEC	1. $f(x) = x + 7$; $f(5)$	2. $g(x) = 3x - 8$; $g(-3)$			
EXAMPLES					
	3. $h(x) = \frac{2}{3}x - 1$; $h(9)$	4. $f(x) = x^2 - x$; $f(-4)$			
	3				
	5. $f(x) = -x^2 + 6x - 4$; $f(5)$	6. $g(x) = -\frac{1}{2}x + 9$; $g(-8)$			
	7 (() 0 2 1 4 0 ((5)				
	7. $f(x) = 2x^2 + 4x - 9$; $f(-5)$	8. $g(x) = x - x^2 $; $g(-7)$			

	9. $f(x) = 4x + 11$; $f(c + 7)$		10. $h(x) = -9 - x$; $h(2k - 5)$		
	For questions 11-16, use the functions to the left.				
$f(x) = 8 - 3x$ $g(x) = x^{2} + 2x$ $h(x) = -\frac{5}{2}x - 1$	11. <i>f</i> (4) + 9		12. −2 · g(−5)		
	13. g(4) + g(-1)		14. 3· h(2) – f(-9)		
	15. If $f(x) = -13$, fin	d x.	16. If $h(x) = 39$, find	d x.	
APPLICATION	17. Anthropologists use the length of certain bones of the human skeleton to estimate the height of the living person. One of these bones is the femur. To estimate the height in centimeters of a female with a femur length of x , the function $h(x) = 61.41 + 2.32x$ can be used. Find $h(46)$ and explain its meaning.				
	Given the graph of $f(x)$, find each function value.				
EVALUATING given a graph	18.	19.			
	a) f(-3)	c) f(0)	a) f(-4)	c) f(2)	
	b) f(1)	d) f(2)	b) f(0)	d) f(5)	