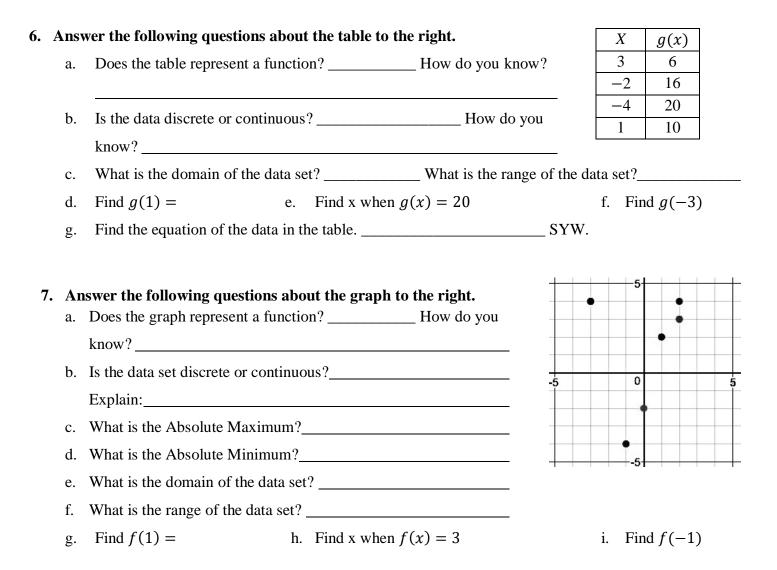
6 R	Features of Functions Review Name:	Per:				
бно	W YOUR WORK AND WORK IN PENCIL					
I. I a.	For the graph right, answer the following. Is the graph a function? How do you know?					
b.	What is the domain of the graph?					
c.	What is the range of the graph?	-6 -5 -4 -3 -2 -1 1 2 3 4 5				
d.	What is the absolute minimum?	-2				
e.	What is the absolute maximum?					
f.	On the interval [-2, 2], what is the relative maximum?	Relative minimum?				
g.	On the interval from $[-6, -4]$, what is the relative minimum	n? Relative maximum?				
h.	Is the graph discrete or continuous?	_ Explain:				
i.	What is <i>f</i> (1)? What is <i>f</i> (–4)? What is <i>f</i> (4)	4)?				
j.	What is x at $f(x) = 6$? What is x at $f(x) = -2$?	What is x at $f(x) = -1?$				
k.	List ONE interval where the graph is increasing.	Decreasing:				
1.	List the y-intercept(s): m. 1	List the x-intercept(s):				
	f is $f(x) = 3x + 2$ and $g(x) = -2x + 7$, graph and label the equations. Circle where $f(x) = g(x)$.	he				

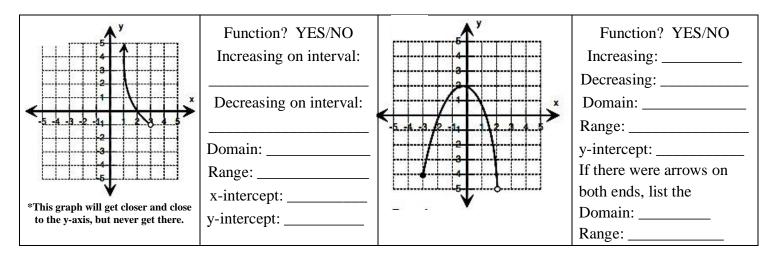
3. Show how to find f(x) = g(x) from #2 algebraically.

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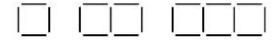
4.
$$g(x) = 2x - 4$$
5. $h(x) = x^2 + 3$ a. $g(-3) =$ a. $h(-2) =$ b. $g(-2) =$ b. $h(2) =$ c. $g(a) =$ c. $h(4) =$ d. $g(x) = 36$ d. $h(x) = 35$ e. $g(x) = 16$ e. $h(x) = 28$



8. For each graph, determine if the relation represents a function. State the key features of each graph.



9. If the first of the figures below is figure or stage #1, make a **table** with at least 4 x values showing the growth of the number of toothpicks.



a. What is the equation that represents the growth?