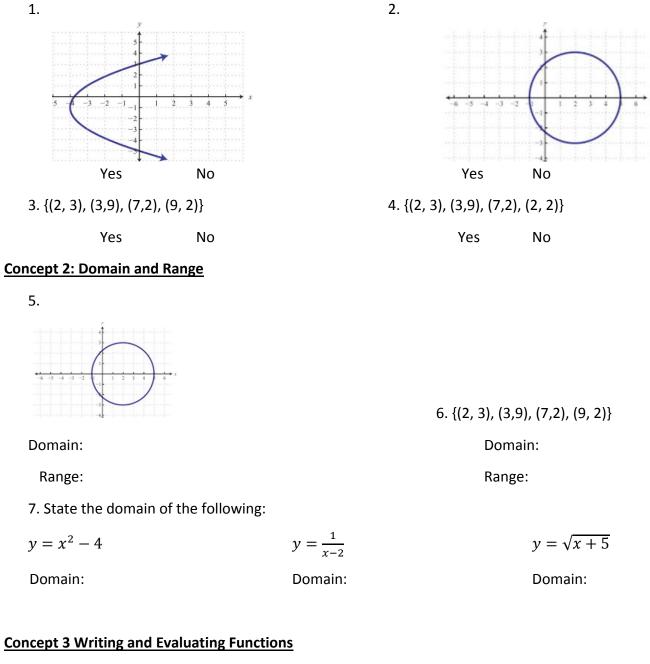
Name:

Hour:____

UNIT 3 REVIEW

Concept 1: Defining Functions

Circle yes for the following that are functions and no for the ones that are not functions:



Evaluating a function at the given values:

8. f(2)

$$f(x) = x^3$$
 $g(x) = x - 3$ $h(x) = x^2 + 5$
9. g(9)

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Hour:

$$f(x) = x^3$$
 $g(x) = x - 3$ $h(x) = x^2 + 5$
10. h(x-1) $11. \left(\frac{f}{g}\right)(x)$
12. (f+h)(x) $13. (h-g)(x)$

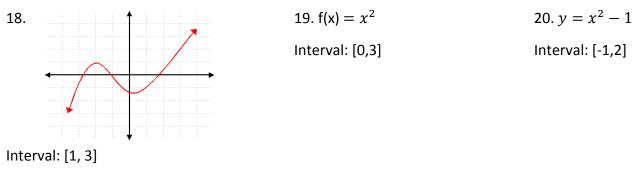
14. $(f \bullet g)(x)$ 15. $(f \circ g)(x)$

State if the following tables are linear, quadratic, or neither. If linear, state the equation.

16.	x	у	17.		
	-8	17		-6	
	-7	14		-5	
	-6	11		-4	
	-5	8		-3	
	-4	5		-2	

Concept 4: Average Rate of Change

Find the average rate of change of the given functions with the given intervals:



Average Rate of Change: