Name:	Date:	Period:	Score:
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Features of Functions #7 -Interpreting Functions Assignment

Use the graph at the right to answer the following questions.

1. What is *f*(2)?

- 2. For what values, if any, does f(x) = 10?
- 3. What are the intercepts?
- 4. What is the domain of f(x)?
- 5. On what interval is f(x) increasing?
- 6. On what interval(s) is *f*(*x*) decreasing?
- 7. For what values, if any, is f(x) > 2?

Use the graph at the right to answer the following questions.

8. Where does f(x) = g(x)?

9. What is f(4) + g(4)?

10. What is g(-2) – f(-2)?

11. On what interval is f(x) > g(x)?

12. Graph f(x) + g(x) on the graph at the right.







Use the following relationships to answer the questions below.

h(x) = 3x	g(x) = 3x + 4	$f(x) = 3^{x}$

- 13. *a*. Find *h*(4) b. Find g(4) c. Find *f*(4)
- 14. Write the equation for h(x) + g(x)
- 15. Write the equation for f(x) + 6

16. Where is g(x) > h(x)?

The functions a(x) and b(x) are defined in the table below. Each function is a set of exactly five ordered pairs.

17. What is *a*(-3) + *b*(-3)?

	x	a(x)	b(x)	a(x) + b(x)	a(x) - b(x)
3. What is a(-1) – b(-1)?	-3	1	-1		
	-1	7	-5		
	0	3	-10		
	2	8	2		
	7	3	3		
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20. In the two columns of the table provided, find a(x) + b(x) in one column and a(x) - b(x) in the other.

21. Give two end behavior statements for this graph:

