Name:

Date:

Period:

Show all your work on a separate sheet of paper.

Evaluate the following function for the given values:

$$f(x) = 4x + 1$$

1. f(2)

2. f(5)

3. f(-2)

4. f(0)

Evaluate the following functions for the given values:

$$f(x) = x^2 - 1$$

$$g(x) = \frac{-1}{x}$$

5. g(2)

6. f(5)

7. g(-2)

8. f(0)

Find each given value using the following function:

$$f(x) = |2x + 1|$$

$$g(x) = x^2 - x$$

9. f(3)

10. f(-3)

11. g(3)

12. g(-3)

13. f(3) – g(3)

14. g(2a)

Let f(x) = 3x + 4 and g(x) = |x - 4|, find the following

1. f(2)

2. f(3)

3. g(6)

l. g(2)

5. 2f(6)

- 6. 0.5g(2)
- 7. f(4) g(3)
- g(5) f(5)

9. $f(0)^2$

10. g(3)³

11. g(a)

12. f(2b)

For	#s 1 – 4, choose th	e best multiple	-choice ar	nswer, give	n f(x) = x (x - 6) ² +	- 2 and g(x) =	3 x + 4 . SI	how your work.	
1.	Find f(3)									
	a. 2		b.	20		c.	29	d.	38	
2.	Find g (-6)									
	a. 30		b.	-6		c.	-30	d	6	
2			υ.	Ü		C.	30	u.	· ·	
3.	.,									
	a27	•	b.	-20		C.	34	d.	-22	
4.	Given, $f(x) = 2(x)$	Given, $f(x) = 2(x - 6)^2 + 2$, Find $f(2c)$								
	a. 4c ²	– 24c + 36	b.	$4c^2 - 24c -$	+ 38	c.	$8c^2 - 48c + 7$	⁷ 2 d.	$8c^2 - 48c + 74$	
An	swer the following (questions using	what you	ı know abo	ut slope (r	ate of c	hange) and y	/-intercept ((starting point).	
1.	Carla puts away a out with and what					ted out	with a certai	n amount.	Find what she started	
	Week	0	1	2	3	4	5	6		
	Amount in accou	nt 74	82	90	98	106	114	122		
[a] Amount started with? [b] How much per week? 2. How much money did Gina start out with if the table shows her balance beyond 4 weeks?										
	Week	4	5	6	7	8	9	10		
	Account balance	75	92	109	126	143	160	177		
3.	[a] Amount sta		e is increa	asing his ru	n each we	ek. Bas	ed on the tal	ole. answer	the questions below:	
									4	
	# of Weeks of Trai	ning	2	3	4	5	6	7		
	Miles 7 10 13 16 19 22 [a] How much more will he run each week?									
	[b] How many miles was he running before he began training?									
	[c] How many	low many weeks until he runs a full marathon of 26.2 miles?								
4.	Evan is buying pizz	n is buying pizza from a store that sells each pie for a given price and each topping for a set price.								
	# of Toppings		1	2	3	4	5			
	Cost		15.25	16.50	17.75	19.00	+			
	[a] Use the table to identify the cost of each topping.									
	[b] How much	b] How much is a pie without any toppings?								