

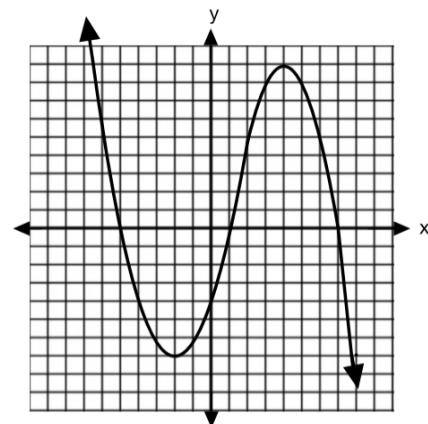
Name: _____

Quiz: Evaluating Functions & The TI-84 Calculator

Part I: Multiple Choice

Circle the correct answer for each question below.

- What are the steps to get a table for the function $f(x) = -2x + 1$?
 - Press 2^{nd} , GRAPH
 - Press $Y=$, type $-2x + 1$ into Y_1 , press 2^{nd} GRAPH
 - Press $Y=$, type $-2x + 1$ into Y_1 , press GRAPH
 - Type $-2x + 1$ in the home screen (not in $Y=$), press 2^{nd} GRAPH
- If $f(x) = -2x^2 - 3$, what is the value of $f(-4)$?
 - 35
 - 29
 - 61
 - 67
- Given the function notation $g(-3) = 9$, which of the following is true?
 - 9 is the input and -3 is the output
 - The function g could be represented by $g(x) = 3x$
 - -3 is the input and 9 is the output
 - The function g could be represented by $g(x) = 2x - 3$
- Which steps will allow you to type a fraction in the calculator?
 - ALPHA \rightarrow $Y=$ \rightarrow ENTER
 - ALPHA \rightarrow GRAPH
 - 2^{nd} \rightarrow $Y=$ \rightarrow ENTER
 - 2^{nd} \rightarrow GRAPH
- The function $h(x)$ is shown graphed to the right. Which of following is the value of $h(0)$?
 - 1
 - 4
 - 5
 - 4



Part II: Constructed Response

Answer each question below and be sure to show all work.

6. Evaluate $f(x) = 4$ when $f(x) = 2x + 6$.

7. Consider the function $f(x) = -3x - 6$ over the domain $-2 \leq x \leq 3$.

a. Generate a table of values using your calculator to fill in the column for $f(x)$.

x	$f(x)$
-2	
-1	
0	
1	
2	
3	

b. What steps did you take using the calculator to generate a table of values? List them below.

Calculator Steps

c. What is the value of $f(-2)$?

8. Romel wants to find the value of $k(-1)$, where $k(x) = 4x^2 - 1$ using his calculator. He generates the following table of values:

a. Is this the correct table of values? Explain.

x	$k(x)$
-2	16
-1	4
0	0
1	4
2	16

b. What function did Romel type in Y=? What did he forget?