

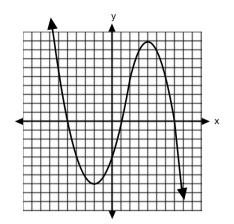
Name:

Quiz: Evaluating Functions & The TI-Nspire Calculator

Part I: Multiple Choice

Circle the correct answer for each question below.

- 1. Tod graphs the function f(x) = -2x + 1 in his calculator. To display a table of values for his graph, he must press
 - 1) CTRL-tab
 - 2) CTRL-T
 - 3) CTRL-Z
 - 4) CTRL-Z
- 2. If $f(x) = -2x^2 3$, what is the value of f(-4)?
 - 1) -35
 - 2) 29
 - 3) 61
 - 4) -67
- 3. Given the function notation g(-3) = 9, which of the following is true?
 - 1) 9 is the input and -3 is the output
 - 2) The function g could be represented by g(x) = 3x
 - 3) -3 is the input and 9 is the output
 - 4) The function *g* could be represented by g(x) = 2x 3
- 4. Which steps will allow you to type a fraction in the calculator?
 - 1) CTRL \rightarrow ENTER
 - 2) CTRL→T
 - 3) CTRL→G
 - 4) CTRL \rightarrow ÷
- 5. The function h(x) is shown graphed to the right. Which of following is the value of h(0)?
 - 1) 1
 - 2) -4
 - 3) —5
 - 4) 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 $-2 \le x \le 3$.
- a. Generate a table of values using your calculator and fill in the column for f(x).

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

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

b. What steps did you take using the

List them below.

calculator to generate a table of values?

Calculator Steps

- 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?