Name

 Pd

 Date

Throughout Algebra 1 you will be working with 4 ways to represent functions:

- Symbolically (an equation or function)
- Visually (a graph)
- Numerically (a table of values and ordered pairs)
- Descriptively (using words, often to represent a real world situation)

First, let's focus on the relationship between the symbolic representation (the equation) and the visual representation (the graph).

- 1. Function *f* graphed at the right is linear.
 - a. The x-coordinate, (1, 0), tells us that f(1) =
 - b. The y-coordinate, (0, 3), tells us that f(0) =
 - c. Use the information from a and b (above) to determine which one of the following functions is the graph of f.
 - i. $f(x) = \frac{-1}{3}x + 3$ ii. $f(x) = \frac{-1}{3}x + 1$
 - iii. f(x) = -3x + 1 iv. f(x) = -3x + 3
 - d. Explain how you determined your answer for question 1c (above).
 - e. Verify that your answer for question 1c is correct by determining the values of f(0) and f(1) for the function you chose.
- 2. Determine the following values for the function $f(x) = \frac{1}{3}x 5$. a. f(0) =_____ b. f(15) =_____ c. f(12) =_____
- 3. Use your answers from question 2 (above) to determine which one of the following graphs could be graph of $f(x) = \frac{1}{3}x 5$.





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