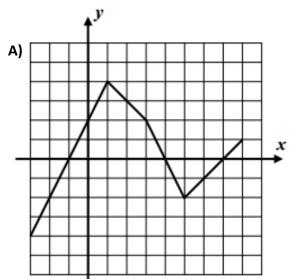
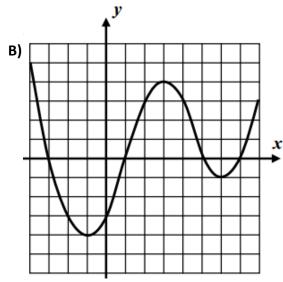
Essential Question: How do we evaluate functions using a graph?

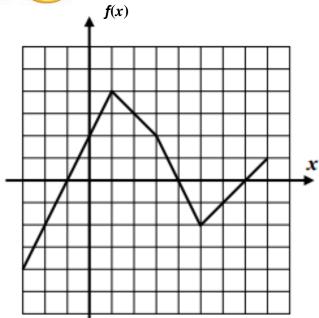
Do Now: Determine if each graph below is a function. Be ready to justify your response.





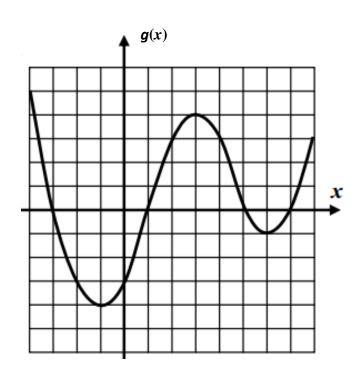
Analyzing Graphs of Functions using Function Notation

Let's take a closer look at the graphs from the Do Now and complete a – e below.



The function y = f(x) is defined by the accompanying graph.

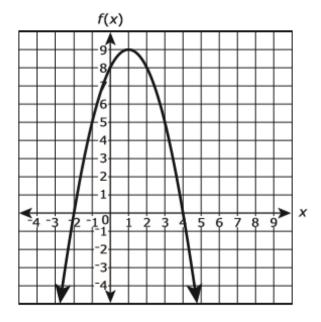
- a) Find *f*(5)
- b) Find *f*(-3)
- c) Find the value of x when f(x) = 4
- d) Find the values of x when f(x) = 2
- e) Find the values of x when f(x) = 0



The function y = g(x) is defined by the accompanying graph.

- a) Find g(2)
- b) Find g(6)
- c) Find g(0)
- d) Find the value of x when g(x) = -4
- e) For what values of x is g(x) = 0?

The figure below shows the graph of the function y = f(x). The function h is defined by h(x) = -3x + 2. Which statements below are true? Select all that apply. Justify your response.



A. f(-2) is greater than h(-2)

C. f(1) is less than h(1)

B. f(0) is greater than h(0)

D. When x = -1, f(x) = h(x).