

Lesson 3.1 -- Using and Interpreting Function Notation

Graphs:

can provide an overview of the function. The graph shows the input-output pairs of the function.

Check Your Understanding

Interpreting a function written using function notation

For example, the function $f(x) = 2x + 1$ can be written as $f(x) = 2x + 1$.

Interpreting function notation

The notation $f(x)$ represents the output of the function f for the input x .

1. A graph of $y = f(x)$ is shown below.

a. What is $f(2)$?

b. What is $f(4)$?

c. What is the function value of $f(x)$ when $x = 0$?

$f(0) = 0$ since $f(x) = 0$



2. Use this graph to find the number of people in the area 1000 feet from a house after the house is open. Interpret each of the following statements in context.

a. $f(1000) = 10$

At 1000 feet from the house, there are 10 people in the area.

b. $f(1000) = 1000$

At 1000 feet from the house, there are 1000 people in the area.

c. $f(1000) = 1000$

At 1000 feet from the house, there are 1000 people in the area.

d. $f(1000) = 10$

At 1000 feet from the house, there are 10 people in the area.

3. Engineers have discovered that there is a pattern, or rule, that can determine the heading distance a car travels in the air's speed when the car's speed is 10, and then double the speed to 20.

a. Use this rule to predict the heading distance of a car moving through:

$f(10) = 10$

b. Write an equation for this that represents the car's heading distance when driving at a speed of x miles per hour.

$f(x) = \frac{x}{10}$

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