

LESSON

Practice B

4-3 Writing Functions

Determine a relationship between the x - and y -values. Write an equation.

1.

x	-4	-3	-2	-1
y	-1	0	1	2

2. $\{(2, 3), (3, 5), (4, 7), (5, 9)\}$

Identify the independent and dependent variables in each situation.

3. Ice cream sales increase when the temperature rises.

4. Food for the catered party costs \$12.75 per person.

I: _____

I: _____

D: _____

D: _____

Identify the independent and dependent variables. Write a rule in function notation for each situation.

5. Carson charges \$7 per hour for yard work.

6. Kay donates twice what Ed donates.

Evaluate each function for the given input values.

7. For $f(x) = 5x + 1$, find $f(x)$ when $x = 2$ and when $x = 3$. _____

8. For $g(x) = -4x$, find $g(x)$ when $x = -6$ and when $x = 2$. _____

9. For $h(x) = x - 3$, find $h(x)$ when $x = 3$ and when $x = 1$. _____

Complete the following.

10. An aerobics class is being offered once a week for 6 weeks. The registration fee is \$15 and the cost for each class attended is \$10. Write a function rule to describe the total cost of the class. Find a reasonable domain and range for the function.

