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## 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.

I: $\qquad$
D: $\qquad$
4. Food for the catered party costs
$\$ 12.75$ per person.
I: $\qquad$
D: $\qquad$

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.
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Evaluate each function for the given input values.
7. For $f(x)=5 x+1$, find $f(x)$ when $x=2$ and when $x=3$. $\qquad$
8. For $g(x)=-4 x$, find $g(x)$ when $x=-6$ and when $x=2$. $\qquad$
9. For $h(x)=x-3$, find $h(x)$ when $x=3$ and when $x=1$. $\qquad$

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.
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