

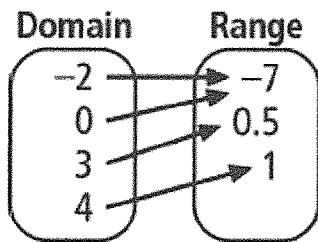
## 2.6 SOLUTIONS

## Practice Form G

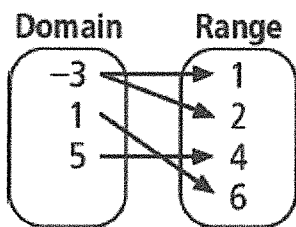
1. Domain  $\{3, 5, 7, 8\}$ ; Range  $\{6, 7, 9\}$ ; function
2. Domain  $\{0, 1, 2, 3\}$ ; Range  $\{0.4, 0.8, 1.2, 1.6\}$ ; function
3. Domain  $\{3, 4, 5, 6\}$ ; Range  $\{-5, -4, -3, 4\}$ ; function
4. Domain  $\{0.3, 0.4, 0.5\}$ ; Range  $\{0.5, 0.6, 0.7, 0.8\}$ ; not a function
5. function
6. function
7. A relation is not a function if a value in the domain is paired with two or more values in the range.
8. The range of the inverse is the domain of the original function and the domain of the inverse is the range of the original function.
9. Use the vertical line test on the graph of a relation. If two or more points fall on the same vertical line, the relation is not a function.
10. function
11. function
12. function
13. not a function
14. A verbal description can be used if the description assigns only one output for each input value.
15. A relation is any set of ordered pairs. The domain is the set of  $x$ -values and the range is the set of  $y$ -values.
16. Look at the column of  $x$ -values. If none of the  $x$ -values repeat, then the relation is a function.

## Practice Form K

1. Domain:  $\{x \mid x = -2, 0, 3, 4\}$ , range:  $\{y \mid y = -7, 0.5, 1\}$

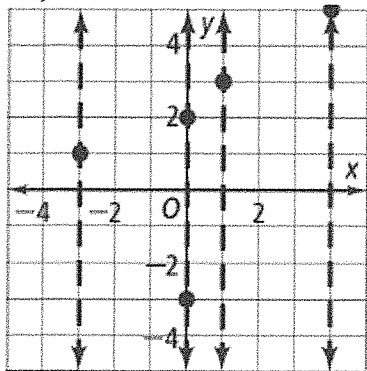


2. Domain:  $\{x \mid x = -3, 1, 5\}$ , range:  $\{y \mid y = 1, 2, 4, 6\}$

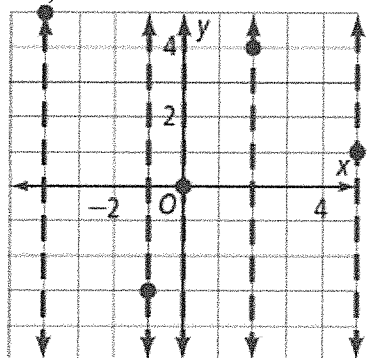


# ANSWER KEY

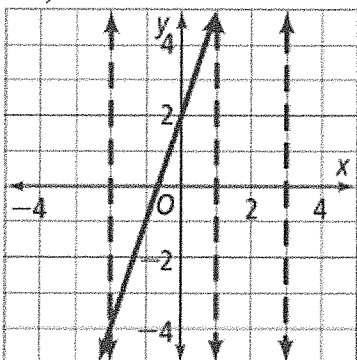
3. Yes, it is a function.
4. No, it is not a function.
5. No, it is not a function.



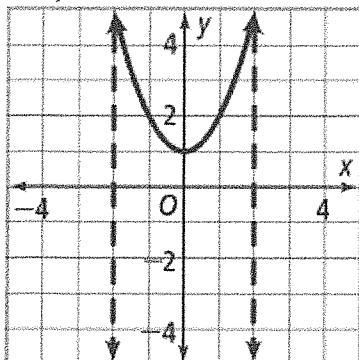
6. Yes, it is a function.



7. Yes, it is a function.

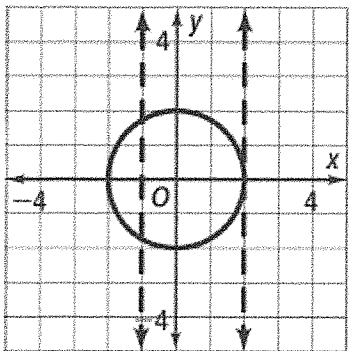


8. Yes, it is a function.



## ANSWER KEY

9. No, it is not a function.



10. No, it is not a function.  
11. Yes, this is a function.  
12. Yes, this is a function.  
13. No, this is not a function.

14.

$x$	$y$
1	4
2	1
4	7
5	9
10	13

15. No, this is not a function. There are several different cars that could have the same gas mileage.

### Reteaching

1. Domain  $\{0, 1, 2, 4\}$ ; Range  $\{3, 5, 6\}$ ; not a function
2. Domain  $\{3, 5, 7, 8, 10\}$ ; Range  $\{4\}$ ; function
3. function
4. not a function
5. function
6. not a function
7. not a function
8. function