

Chapter 2

Functions and Linear Functions

2.1 Check Points

1. The domain is the set of all first components. The domain is $\{0, 10, 20, 30, 40\}$.
The range is the set of all second components. The range is $\{9.1, 6.7, 10.7, 13.2, 21.2\}$.
2. a. The relation is not a function because an element, 5, in the domain corresponds to two elements in the range.
b. The relation is a function.
3. a. $f(x) = 4x + 5$
 $f(6) = 4(6) + 5$
 $f(6) = 29$
b. $g(x) = 3x^2 - 10$
 $g(-5) = 3(-5)^2 - 10$
 $g(-5) = 65$
c. $h(r) = r^2 - 7r + 2$
 $h(-4) = (-4)^2 - 7(-4) + 2$
 $h(-4) = 46$
d. $F(x) = 6x + 9$
 $F(a + h) = 6(a + h) + 9$
 $F(a + h) = 6a + 6h + 9$
4. a. Every element in the domain corresponds to exactly one element in the range.
b. The domain is $\{0, 1, 2, 3, 4\}$.
The range is $\{3, 0, 1, 2\}$.
c. $g(1) = 0$
d. $g(3) = 2$
e. $x = 0$ and $x = 4$.

2.1 Concept and Vocabulary Check

1. relation; domain; range
2. function

3. f, x

4. $r, -2$

2.1 Exercise Set

1. The relation is a function.
The domain is $\{1, 3, 5\}$.
The range is $\{2, 4, 5\}$.
2. The relation is a function.
The domain is $\{4, 6, 8\}$.
The range is $\{5, 7, 8\}$.
3. The relation is not a function.
The domain is $\{3, 4\}$.
The range is $\{4, 5\}$.
4. The relation is not a function.
The domain is $\{5, 6\}$.
The range is $\{6, 7\}$.
5. The relation is a function.
The domain is $\{-3, -2, -1, 0\}$.
The range is $\{-3, -2, -1, 0\}$.
6. The relation is a function.
The domain is $\{-7, -5, -3, 0\}$.
The range is $\{-7, -5, -3, 0\}$.
7. The relation is not a function.
The domain is $\{1\}$.
The range is $\{4, 5, 6\}$.
8. The relation is a function.
The domain is $\{4, 5, 6\}$.
The range is $\{1\}$.
9. a. $f(0) = 0 + 1 = 1$
b. $f(5) = 5 + 1 = 6$
c. $f(-8) = -8 + 1 = -7$
d. $f(2a) = 2a + 1$
e. $f(a + 2) = (a + 2) + 1$
 $= a + 2 + 1 = a + 3$

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Robert Blitzer, Jack C. Gill



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