

Chapter 2

Functions and Graphs

Section 2.1

Check Point Exercises

1. The domain is the set of all first components: $\{0, 10, 20, 30, 42\}$. The range is the set of all second components: $\{9.1, 6.7, 10.7, 13.2, 21.7\}$.

2. a. The relation is not a function since the two ordered pairs $(5, 6)$ and $(5, 8)$ have the same first component but different second components.
- b. The relation is a function since no two ordered pairs have the same first component and different second components.

3. a. $2x + y = 6$
 $y = 6 - 2x$

For each value of x , there is one and only one value for y , so the equation defines y as a function of x .

- b. $x^2 + y^2 = 1$
 $y^2 = 1 - x^2$
 $y = \pm\sqrt{1 - x^2}$

Since there are values of x (all values between -1 and 1 exclusive) that give more than one value for y (for example, if $x = 0$, then

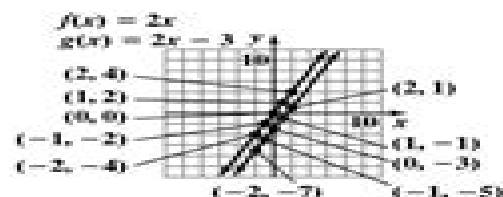
$y = \pm\sqrt{1 - 0^2} = \pm 1$), the equation does not define y as a function of x .

4. a. $f(-5) = (-5)^2 - 2(-5) + 7$
 $= 25 - (-10) + 7$
 $= 42$
- b. $f(x+4) = (x+4)^2 - 2(x+4) + 7$
 $= x^2 + 8x + 16 - 2x - 8 + 7$
 $= x^2 + 6x + 15$
- c. $f(-x) = (-x)^2 - 2(-x) + 7$
 $= x^2 - (-2x) + 7$
 $= x^2 + 2x + 7$

5.

x	$f(x) = 2x$	(x, y)
-2	-4	$(-2, -4)$
-1	-2	$(-1, -2)$
0	0	$(0, 0)$
1	2	$(1, 2)$
2	4	$(2, 4)$

x	$g(x) = 2x - 3$	(x, y)
-2	$g(-2) = 2(-2) - 3 = -7$	$(-2, -7)$
-1	$g(-1) = 2(-1) - 3 = -5$	$(-1, -5)$
0	$g(0) = 2(0) - 3 = -3$	$(0, -3)$
1	$g(1) = 2(1) - 3 = -1$	$(1, -1)$
2	$g(2) = 2(2) - 3 = 1$	$(2, 1)$



The graph of g is the graph of f shifted down 3 units.

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Allen R. Angel



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