MODULE 3 Functions and Models

LESSON 3-1

Practice and Problem Solving: A/B

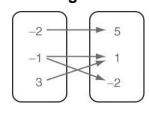
- 1. The rain stopped, so the rainfall does not increase.
- 2. c, because the line is steepest
- 3. discrete
- 4. continuous
- 5. continuous
- 6. discrete
- 7. b; continuous; D: $\{0 \le x < 8\}$; R: $\{0 \le y \le 2\}$

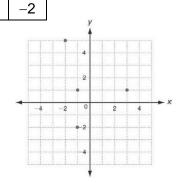
LESSON 3-2

Practice and Problem Solving: A/B

1. **x y** -2 5 -1 1 3 1

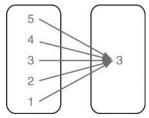
-1





2.

X	У
5	3
4	3
3	3
2	3
1	3



- 3. $\{0 \le x \le 4\}$; $\{0 \le y \le 4\}$; yes; each domain value is paired with exactly one range value.
- 4. {8, 9}; {-3, -4, -6, -9}; no; both domain values are paired with more than one range value.
- 5. {0, 1, 2}; {4, 5, 6, 7, 8}; no; two domain values are paired with two range values.

LESSON 3-3

Practice and Problem Solving: A/B

- 1. cost; size
- 2. earnings; number of hours worked
- 3. total cost; number of pounds bought
- 4. y = 8x; f(x) = 8x
- 5. y = 1.59x; f(x) = 1.59x
- 6. independent: number of hours; dependent: total cost; function: f(x) = 70x + 40; solution: \$320
- 7. independent: number of bags; dependent: total cost; function: f(g) = 4g + 10;

solution: \$66

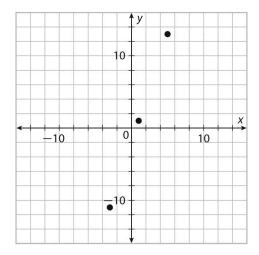
LESSON 3-4

Practice and Problem Solving: A/B

1. □

X	У
-3	-11
1	1
5	13

	X	y
3.	0	-3
	8	5
	3	0



	10-	
-10	0	10 X
	-10-	

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2.	x	У
	2	8
	3	6
	4	4

4. 7.3 ft

