

Lesson 2.1.1
Homework Answers

2-6. $y = 7x + 5$

2-7. See below:

- a. 5
- b. -1
- c. 132
- d. -2

2-8. See below:

- a. 2
- b. -4
- c. -5, -2, 0, 2, 4
- d. -2
- e. 13

2-9. (a) and (b) are functions because each only has one output for each input.

- d. a. D: all real numbers, R: $1 \leq y \leq 3$
- b. b: D: all real numbers, R: $y \geq 0$
- c. D: $x \geq -2$, R: all real numbers

2-10. All graphs have lines of symmetry. Graph (a) has multiple vertical lines of symmetry, one at each maximum and minimum; graph (b) has one line of symmetry at $x = 1$; graph (c) has one line of symmetry at $y = 1$.
