## Answers for Lesson 6-4, pp. 277-278 Exercises

1. all of them

- **2.** *xy* and *yx*
- 3. 11a and a,  $-4.1a^2$  and  $a^2$
- 4. no
- **5.** The student added *x* to the left side but subtracted *x* from the right side.

$$3x + 4 - x = 7 + x$$

$$2x + 4 = 7 + x$$

$$2x - x + 4 = 7 + x - x$$

$$x + 4 = 7$$

$$x + 4 - 4 = 7 - 4$$

$$x = 3$$

- 6. It is a negative integer. Combining like terms on the right gives you -2x 12. Adding 2x to each side gives you 4x = -12. A negative divided by a positive is negative.
- **7.** −2
- 8. 5

- 9. 21
- 10. 2

- 11. 9
- **12.** –18
- **13.** 3.2
- 14. 4

**15.** \$3.02

**16.** 46 g

- **17.** at about 9:57 A.M.
- 18. Use inverse operations to combine the variables and then isolate the variable on one side of the equation.
- **19.** 0.15

**20.** 12

**21.** 3

**22.** 11.8

**23.** 3

**24.** 4