LESSON 9-1

Practice and Problem Solving: A/B

1. $x = -5$ or $x = 5$

2. no solution

3. $x = -1$ or $x = 1$

4. $x = -3$ or $x = 3$

5. no solution

6. $x = 0$

7. $x = 11$ or $x = -11$

8. $x = 7$ or $x = -7$

9. $x = 6$ or $x = -6$

10. $x = -12$ or $x = 2$

11. $x = 11$ or $x = -9$

12. $x = 15$ or $x = 13$

13. $x = -3$ or $x = 9$

14. no solution

15. $x = -6$ or $x = 4$

16. $x = -1 \pm \sqrt{5}$

17. $x = 3 \pm \sqrt{6}$

18. $x = 7 \pm \sqrt{3}$

19. length $= 200$ ft and width $= 100$ ft

20. 2 s

21. 40 ft

LESSON 9-3

Practice and Problem Solving: A/B

1. 3 and -4

2. 5 and $-\dfrac{3}{4}$

3. 3 and $-\dfrac{1}{2}$

4. $\dfrac{-11 + \sqrt{61}}{6}$ and $\dfrac{-11 - \sqrt{61}}{6}$

5. 7 and 4

6. 7 and -7

7. $\dfrac{1}{3}$ and $-\dfrac{1}{2}$

8. 2 and -10

9. $0^2 - 4(1)(25) < 0,$ no real solution

10. $\left(\sqrt{7}\right)^2 - 4(3)(-3) > 0,$ two real solutions

11. $(8)^2 - 4(1)(16) = 0,$ one real solution

12. No; the discriminant is negative. There are no real solutions so the ball will not hit the roof.