MODULE 8 Using Factors to Solve Quadratic Equations

LESSON 8-1

Practice and Problem Solving: A/B

1. $(x + 2)(x + 3)$
2. $(x - 3)(x + 1)$
3. $(x + 1)(x - 4)$
4. $(x + 1)(x + 3)$
5. $(x - 9)(x - 5)$
6. $(x + 3)(x + 8)$
7. $(x - 8)(x - 4)$
8. $(x - 3)(x - 12)$
9. $(x + 3)(x - 14)$
10. $(x - 9)(x - 9)$
11. $(x + 4)(x - 11)$
12. $x = 0, x = 5$
13. $x = 6, x = 3$
14. $x = 5, x = 10$
15. $x = -7, x = 3$
16. $x = -8, x = 1$
17. $x = -5, x = 3$
18. 9 and 8
19. 14 and 6

LESSON 8-2

Practice and Problem Solving: A/B

1. $x = \frac{1}{2}, 2$
2. $x = \frac{1}{3}, 3$
3. $x = \frac{2}{3}, 2$
4. $x = -2, -\frac{1}{5}$
5. $x = -6, 2$
6. $x = -4, 4$
7. $x = -7, \frac{3}{2}$
8. $x = -\frac{9}{7}, 4$
9. $x = -3, 3$
10. $x = -\frac{5}{2}, 3$
11. $x = \frac{5}{2}$
12. $x = 2$
13. $x = -3, \frac{2}{3}$
14. no solution
15. $x = 0, 3$
16. $x = \frac{2}{3}, \frac{5}{3}$
17. $x = \frac{1}{2}, \frac{49}{2}$
18. $x = -\frac{7}{4}, -2$
19. $x = \frac{1}{8}, \frac{1}{3}$
20. $x = -5, 1$
21. 7 s

LESSON 8-3

Practice and Problem Solving: A/B

1. $(x + 5y)^2$
2. $2(4x + 5y)^2$
3. $(9x + 11y)(9x - 11y)$
4. $3x(5x + 4)(5x - 4)$
5. $x = \frac{6}{5}; x = \frac{6}{5}$
6. $x = 0; x = -\frac{4}{3}$
7. $t = \frac{1}{4}$s
8. A, C, E