

Answer Key

Lesson 9.8

Practice Level C

1. $13a(1 - 2a)$ 2. $15x(2y - 3x)$
3. $-2(m + 1)(m + 7)$ 4. $7(2p - 3)(p - 1)$
5. $r(r + 5)^2$ 6. $5b^2(b + 4)^2$ 7. $4n^3(n + 6)(n - 5)$
8. $7c(c - 2)^2$ 9. $-5(2t - 5)(t + 3)$
10. $(x - y)(x + 9)$ 11. $(x^2 - 8)(x + 5)$
12. $(3x - 8y)(3x + 8y)$ 13. $3x^3y(x - 9)(x + 9)$
14. $8rs^4(r - 3)(r + 3)$ 15. $25x^2y(x - 4)$
16. $-3, -1, 0$ 17. $-2, 2$ 18. $-\frac{5}{3}, 0, \frac{1}{2}$
19. $-\frac{15}{4}, \frac{15}{4}$ 20. $-\frac{1}{7}, 0, 5$ 21. $-6, 0$
22. $-2, 0, \frac{3}{5}$ 23. $\frac{5}{6}, \frac{9}{2}$ 24. $-\frac{5}{6}, \frac{5}{6}$
25. $-\frac{9}{4}, 0, \frac{9}{4}$ 26. $-5, 7$ 27. 14
28. $-\frac{3}{5}, 0$ 29. $-3, 9$ 30. $-\frac{10}{9}, 0, \frac{10}{9}$
31. $a^2 - 2ab + b^2 = a^2 - ab - ab + b^2 = a(a - b) - b(a - b) = (a - b)(a - b) = (a - b)^2$
32. $3(2x - 1)(3x + 2)$ 33. a. $2\pi r^2 - \frac{1}{2}\pi = 0$ b. $\frac{1}{2}\text{ft}$ 34. about 11 sec