

Answer Key

Practice B

1. $2x(3x + 5)$ 2. $5c(c^2 - 5c + 2)$
3. $3y(5y^2 + 2y - 7)$ 4. $2x^2(5x^2 + 8x + 2)$
5. $d^2(4d^2 + d - 3)$ 6. $2a^2(4a^3 - 5a + 9)$
7. yes 8. no; $5(n + 4)^2$
9. no; $2(x - 2)(x + 2)$ 10. yes
11. no; $2(x + 1)(x + 6)$ 12. yes
13. $6x^2(x + 3)$ 14. $3c(c + 2)(c - 2)$
15. $-2m(5m^2 + 1)$ 16. $7a^2(5a - 4)$
17. $16x(2 - 3x)$ 18. $5x(7y - 12x)$
19. $3(m + 6)(m + 2)$ 20. $4(x - 4)(x + 5)$
21. $2t(t + 3)(t - 2)$ 22. $6x(x + 2)^2$
23. $(x^2 + 4)(x + 1)$ 24. $(d^2 + 3)(d + 2)$
25. $-1, -6$; *Sample answer:* factoring
26. no solution 27. $\frac{7}{2}$; *Sample answer:* factoring
28. $\frac{3 + \sqrt{3}}{3}, \frac{3 - \sqrt{3}}{3}$; *Sample answer:*
quadratic formula
29. no solution
30. $\frac{-2 + \sqrt{19}}{5}, \frac{-2 - \sqrt{19}}{5}$; *Sample answer:*
quadratic formula
31. 2 sec 32. 4 sec