

Answer Key

Practice C

1. $3x(x - 4)$ 2. $4c(c^2 - 3c + 2)$
3. $-7y(y^2 - 5y + 1)$ 4. $5x(\frac{2}{3}x^2 + \frac{1}{3}x + 7)$
5. $3d^2(5d^2 - 2d + 1)$ 6. $8ab(a^3 + 6a - 11)$
7. yes 8. no; $2n(2n + 1)(n - 5)$
9. no; $7x(3x - 5)(3x + 5)$ 10. yes
11. no; $8(3x - 7)(2x + 4)$ 12. yes
13. $3x(7x - 5)$ 14. $-4c^2(c - 3)$
15. $5m(m + 5)^2$ 16. $2y(3y - 5)(y + 2)$
17. $3t(2t + 5)(t - 1)$ 18. $7x(4 - 3x)(2 + x)$
19. $(x^2 + 3)(x - 2)$ 20. $5x(x + 2)(x - 2)$
21. $(t - 2)(t + 2)(t + 3)$
22. $(x + 1)(x - 1)(2x + 3)$ 23. $(x^2 + 3)(x - 4)$
24. $(2d^2 + 3)(d - 5)$
25. $3, -\frac{2}{7}$; *Sample answer:* factoring
26. no solution
27. $\frac{-3 + \sqrt{15}}{2}, \frac{-3 - \sqrt{15}}{2}$; *Sample answer:*
quadratic formula
28. no solution
29. $\frac{5 + \sqrt{37}}{6}, \frac{5 - \sqrt{37}}{6}$; *Sample answer:*
quadratic formula
30. $\frac{9}{5}, 2$; *Sample answer:* factoring 31. 4 sec
32. $(9 + \sqrt{105})$ sec (about 19.25 sec) 33. Earth