

Answers to Odd-numbered Exercises in Each Section; Answers to All Exercises in Reviews

- Exercise 1.1** [page 8] 1. Q, R 3. H, R 5. J, Q, R 7. W, J, Q, R 9. Q, R
 11. H, R 13. -25 15. 81 17. -64 19. 6 21. -42 23. 5 25. -2
 27. -2 29. -60 31. 10 33. 1 35. 50 37. -2 39. -5 41. $\frac{19}{30}$
 43. 2 45. 100 47. 4 49. 1080 51. 64 53. 0 55. 72.5904
 57. 108.39742 59. 57.060248 61. a. 7.23456 cubic meters b. 6.1544 square centimeters
 63. a. 2622.528 cubic meters b. 1902.4632 square inches
 65. a. $P = 2l + 2w$ b. 56 centimeters
 67. a. $P = \frac{kt}{v}$ b. 40 pounds per square inch
 69. a. Interest: Prt
 amount: $P(1 + rt)$
 b. $\$1016.00$

- Exercise 1.2** [page 17] 1. Binomial; third degree; $2, -1$ 3. Monomial; fourth degree; 5
 5. Trinomial; second degree; $3, -1, 2$ 7. Trinomial; third degree; $1, -2, -1$ 9. (b), (c)
 11. $7x^2$ 13. $-3y^3$ 15. z^2 17. $7x^2y - 2x$ 19. $6r^2 + 4r$ 21. $s^2 - 4s$
 23. $t^2 + 3t - 2$ 25. $-2u^2 - u - 3$ 27. $-3x^3 + 2x^2 - 4x + 7$
 29. $2t^4 - 5t^3 - 4t^2 + 3t + 1$ 31. $3a^2 + a - 9$ 33. $8x^2y - xy + 3xy^2$
 35. $-2x^2 + x - 3$ 37. $b^2 + 3b + 1$ 39. $-2y - 1$ 41. $2 - x$ 43. $x - 1$
 45. $-x^2 - 3x - 1$ 47. $-2x^2 + x - 4$ 49. $2x - y$ 51. $-4x - 5$
 53. a. -1 b. -21 55. a. $\frac{11}{4}$ b. $\frac{1}{9}$ 57. a. 14.016 b. -63.248
 59. a. 2 b. 96 61. a. $-16t^2 + 16t + 8$ b. 8 feet; 12 feet
 63. a. $2x^2 + 4xy$ b. 1224 square inches; 8.5 square feet
 65. a. $0.12x^2 + 0.08xy$ b. $\$50.40$ 67. a. $-0.005x^2 + 8x - 400$ b. $\$2600$
 69. a. Weekly profit: $-0.08x^2 + 200x - 200$ b. $\$11,512.00$
 71. a. $6x^2 - \frac{5}{4}\pi x^2$ b. 132.8 square inches 73. a. $V = \frac{2}{3}\pi r^3 + \pi r^2h$ b. $\frac{14}{3}\pi r^3$