

43. x^7 45. $\frac{x^4}{9y^6}$ 47. $\frac{x^2}{4y^2}$ 49. a^6b^4 51. $\frac{1}{a+b}$ 53. $1+x^{-1}y$ 55. $xy^{-1}+1$
57. (y^3+4x^4) 59. $(3x+4y)$ 61. $\frac{x^2+y^2}{x^2y^2}$ 63. $\frac{x^2y^2+1}{xy}$ 65. $\frac{y^2-x^2}{xy}$
67. $1-xy$ 69. $x+y$ 71. $\frac{xy}{x+y}$ 73. 2.85×10^2 75. 8.372×10^6
77. 2.4×10^{-2} 79. 5.23×10^{-4} 81. 240 83. 687,000 85. 0.005 87. 0.000202
89. a. 7.2×10^2 b. 8.4×10^2 91. a. 8.0×10^2 b. 5.6×10^2
93. a. 3.0×10^8 b. 1.18×10^{10} 95. a. 5.87×10^{12} b. More than 89,000 years
97. a. $4.003383263507 \times 10^{20}$ b. 4.2×10^{19} square feet c. 7595 times 99. $\frac{s^{14}x^2}{t^2y^2}$
101. $\frac{-1}{a^3bx^3}$ 103. $\frac{4x^2}{9y^{16}}$ 105. $\frac{2^{10}y^7}{x^{12}}$ 107. $\frac{2x^4z}{27y^2}$ 109. $6-x$ 111. $9x+1$

- Chapter 2 Review** [page 96] 1. $\frac{a}{2(a-1)}$ 2. $\frac{-a}{4}$ 3. $\frac{2y-3}{3}$ 4. $\frac{y^2-2x}{2}$ 5. $\frac{x}{x+3}$
6. $\frac{-x+2y}{x+2y}$ 7. $\frac{a-3}{2(a+3)}$ 8. $\frac{2xy+1}{2xy-1}$ 9. $\frac{y+2}{x^2+1}$ 10. $a-1$ 11. $\frac{Sab}{2}$
12. $\frac{-a^4b^3}{4}$ 13. $\frac{6x}{2x+3}$ 14. $\frac{(2x+3)(x+1)}{6}$ 15. $\frac{2(x-2)(x+1)}{(x-1)(x+3)}$
16. $\frac{(y-1)(x-1)}{4(x^2+2)(x-3)}$ 17. $\frac{a(a-2)}{(a+1)(a+2)}$ 18. $\frac{b(a^2+2ab+4b^2)}{a(a-2b)}$ 19. $\frac{1}{2x-1}$
20. $\frac{y+2}{12x}$ 21. $4yz+2-\frac{1}{yz}$ 22. $9x^2-7+\frac{4}{x^2}-\frac{1}{x^4}$ 23. y^2+2y-4
24. $x^2-2x-2-\frac{1}{x-2}$ 25. $x^2+x+\frac{1}{2}-\frac{1}{2(2x-1)}$ 26. $y^2-\frac{1}{3}y-\frac{2}{9}+\frac{38}{9(3y+1)}$
27. $2x+\frac{3x-5}{x^2-1}$ 28. $y^4+y+\frac{y-1}{y^3-1}$ 29. $\frac{2}{x}$ 30. $\frac{y-2}{y+3}$ 31. $\frac{-1}{6}a$ 32. $\frac{5b}{4}$
33. $\frac{3x+1}{2(x+3)(x-3)}$ 34. $\frac{4(y+1)}{(y-2)(y+2)^2}$ 35. $\frac{2a^2-2a+1}{(a-1)(a-3)}$ 36. $\frac{a^4+a^3-a^2+a+4}{(a-1)(a+1)^2}$
37. $\frac{1}{4}$ 38. $\frac{1}{5}$ 39. $\frac{y(x-2)}{(x+2)}$ 40. $\frac{x}{x+4}$ 41. $\frac{x^2}{(x+1)(x-1)^2}$ 42. $\frac{x+5}{x-7}$
43. $\frac{8}{9x}$ 44. $\frac{-(x-y)}{4}$ 45. $\frac{-2y^2}{3x^2}$ 46. $\frac{1}{(x-y)^4}$ 47. $\frac{a^6}{8b^9}$ 48. a^4b^6 49. $1-\frac{1}{a^2}$
50. $b+\frac{b^2}{a}$ 51. y^3+2x^3 52. $2x-y^3$ 53. $\frac{x^3+y}{x^3y}$ 54. $\frac{1-x^2y^2}{xy}$ 55. $\frac{y-xy^2}{x}$
56. $\frac{x+y}{y}$ 57. $\frac{(y-x)(x-y)}{xy}$ 58. $\frac{1}{y-x}$ 59. 7×10^{-1} 60. 4×10^1