

# Review

pg 510

7. 1

9.  $\frac{1}{5^3} = \frac{1}{125}$

11.  $2^{-4} = \frac{1}{2^4} = \frac{1}{16}$

13.  $\frac{-2(3)^3(-2)^{-3}}{(-2)^3} = \frac{-2(27)}{-8} = \frac{-54}{-8} = 6.75$

15. b

17.  $2b^6c^4$

19.  $\frac{s^3}{2r^2}$

31.  $(2^6 \cdot 2^{-3}) \cdot (3 \cdot 3^3)$   
 $= 2^3 \cdot 3^4$

33.  $r^5$

35. 1

37.  $\frac{1}{(5^2)^2} = \frac{1}{(25)^2} = \frac{1}{625}$

39.  $g^{12}h^8$

41.  $-x^4y^2$

43.  $j^6k^9$

45.  $(m^5n^{15}) \cdot (m^3n^{15}) = m^8n^{30}$

53.  $2^6 = 64$

55.  $m^5$

57.  $\frac{2 \cdot 7}{4^3} = \frac{14}{64} = \frac{7}{32}$

59.  $t^3v^4$

65. 0      71.  $3n^2 + 2n - 4$ ; LC = 3

67. 6      73.  $-5t^2 - t + 1$ ; LC = -5

69. 2      75.  $-2x^2 + x + 5$ ; LC = -2

77. linear binomial

81. quartic trinomial

79. quadratic trinomial

83. quintic trinomial

$$85. -4t + 3$$

$$87. 3h^3 - 3h^2 + 5$$

$$89. 12 + 6p - p + p^2 - 4$$
$$= p^2 + 5p + 8$$

$$91. 10g - g^2 + 3 + 4g^2 - 8g + 1$$
$$= 3g^2 + 2g + 4$$

$$93. 8r^2$$

$$95. 18x^3y^2$$

$$97. 2x^2 - 8x + 12$$

$$99. \begin{array}{r} a \quad -6 \\ a \quad \begin{array}{|c|c|} \hline a^2 & -6a \\ \hline \end{array} \\ 3 \quad \begin{array}{|c|c|} \hline 3a & -18 \\ \hline \end{array} \end{array}$$

$$= a^2 - 3a - 18$$

$$101. \begin{array}{r} x \quad -2 \\ x \quad \begin{array}{|c|c|} \hline x^2 & -2x \\ \hline \end{array} \\ -10 \quad \begin{array}{|c|c|} \hline -10x & 20 \\ \hline \end{array} \end{array}$$

$$= x^2 - 12x + 20$$

$$103. \begin{array}{r} 4q \quad 5 \\ 2q \quad \begin{array}{|c|c|} \hline 8q^2 & 10q \\ \hline \end{array} \\ 6 \quad \begin{array}{|c|c|} \hline 24q & 30 \\ \hline \end{array} \end{array}$$
$$= 8q^2 + 34q + 30$$