

HW 6.1 (page 1)

1. 1 2. 1 3. $\frac{1}{243}$
4. $-\frac{1}{125}$ 5. $\frac{1}{9}$ 6. $-\frac{1}{6}$
7. $\frac{1}{x^6}$ 8. 1 9. $\frac{7}{x^4}$
10. $\frac{12}{g^9}$ 11. $\frac{b^2}{9}$ 12. $\frac{t}{32u^5}$
13. 64 14. -27 15. $\frac{272z^6}{y^8}$
16. 1 17. h^{12} 18. $\frac{1}{t^{12}}$
19. $\frac{1}{10}$ cm 20. $-32y^5$ 21. $\frac{1}{27d^3}$
22. $\frac{b^3}{125}$ 23. $\frac{27x^{15}}{8y^{15}}$ 24. $\frac{81b^{36}}{a^{44}}$
25. 4.8×10^5 ; 480,000 26. 3×10^5 ; 300,000

HW 6.1 (page 2)

1. $\frac{1}{625}$ 2. $\frac{1}{625}$ 3. $-\frac{1}{7}$
4. $\frac{1}{8}$ 5. $-\frac{27}{16}$ 6. $\frac{1}{36}$
7. $\frac{n^4}{49}$ 8. $\frac{1}{jk^4}$ 9. $\frac{y^{10}}{25}$
10. $\frac{64s^3}{t^5}$ 11. $\frac{b^2}{a}$ 12. $\frac{272z^6}{y^8}$
13. p^{18} 14. $\frac{1}{q^{20}}$ 15. $\frac{1}{625}$
16. $-\frac{1}{4}$ 17. x^5 18. v^6
19. $-512t^6$ 20. $-\frac{125}{q^{12}}$ 21. $81h^{20}$
22. $\frac{100y^2}{x^{10}}$ 23. $\frac{16a^{21}}{27b^{46}}$
24. 2.58×10^4 ; 25,800 25. 2.5×10^6 ; 2,500,000
26. $x = 3$ and $y = 5$