

CUMULATIVE EXPONENT PRACTICE

$$(1.1) \quad 3^{-3} \frac{1}{27}$$

$$(1.2) \quad 2^{-5} \frac{1}{2^5}$$

$$(1.3) \quad \frac{1}{4^{-2}} 16$$

$$(1.4) \quad 8^0 (2^{-3}) \frac{1}{8}$$

$$(1.5) \quad 3^5 (3^{-4}) 3$$

$$(1.6) \quad 5^{-7} (5^9) 25$$

$$(1.7) \quad 9^5 (9^{-5}) 1$$

$$(1.8) \quad -4(-4)^{-3} \frac{1}{16}$$

$$(1.9) \quad \frac{3^0}{2^{-3}} 8$$

$$(1.10) \quad (2^3)^{-2} \frac{1}{2^6}$$

$$(1.11) \quad (6^{-1})^2 \frac{1}{36}$$

$$(1.12) \quad (-2^3)^{-1} \frac{1}{-8}$$

$$(2.1) \quad x^{-8} \frac{1}{x^8}$$

$$(2.2) \quad 3x^{-5} \frac{3}{x^5}$$

$$(2.3) \quad \frac{1}{7x^{-2}} \frac{x^2}{7}$$

$$(2.4) \quad \frac{9}{x^{-4}} 9x^4$$

$$(2.5) \quad 8x^{-7} y^{-8} \frac{8}{x^7 y^8}$$

$$(2.6) \quad \frac{1}{6x^{-4} y^{-3} z^5} \frac{x^4 y^3}{6z^5}$$

$$(2.7) \quad \frac{3x^0}{y^{-3}} 3y^3$$

$$(2.8) \quad (4x)^{-2} \frac{1}{16x^2}$$

$$(2.9) \quad (-2x)^{-4} \frac{1}{16x^4}$$

$$(2.10) \quad \frac{1}{(3x)^{-3}} 27x^3$$

$$(2.11) \quad (5x)^0 y^{-2} \frac{1}{y^2}$$

$$(2.12) \quad (2x)^{-2} (3y^5) \frac{3y^5}{4x^2}$$

$$(3.1) \quad \frac{7^5}{7^3} 49$$

$$(3.2) \quad \frac{6^5}{6^7} \frac{1}{36}$$

$$(3.3) \quad \frac{18^6}{18^6} 1$$

$$(3.4) \quad \frac{(-5)^9}{5^9} -1$$

CUMULATIVE EXPONENT PRACTICE

$$(3.5) \quad \frac{2^3}{2^{-4}} 2^7$$

$$(3.6) \quad \frac{4^5(4^3)}{4^6} 16$$

$$(3.7) \quad \frac{3^2(3^4)}{3^9} \frac{1}{27}$$

$$(3.8) \quad \left(\frac{2}{3}\right)^3 \frac{8}{27}$$

$$(3.9) \quad \left(\frac{4}{5}\right)^2 \frac{16}{25}$$

$$(3.10) \quad \left(-\frac{1}{2}\right)^5 - \frac{1}{2^5}$$

$$(3.11) \quad \left(\frac{11}{3}\right)^{-1} \frac{3}{11}$$

$$(3.12) \quad \left(\frac{3}{2}\right)^{-2} \frac{4}{9}$$

$$(4.1) \quad \left(\frac{x}{3}\right)^4 \frac{x^4}{81}$$

$$(4.2) \quad \frac{x^7}{x^2} x^5$$

$$(4.3) \quad \left(\frac{2}{x}\right)^6 \frac{2^6}{x^6}$$

$$(4.4) \quad x^5 \left(\frac{1}{x^8}\right) \frac{1}{x^3}$$

$$(4.5) \quad x^{12} \left(\frac{1}{x^3}\right) x^9$$

$$(4.6) \quad \frac{2x^2y}{x^3y^2} \left(\frac{4x^7y^2}{2x^3}\right) 4x^3y$$

$$(4.7) \quad \frac{3xy^4}{2x^5y} \left(\frac{6x^{-3}y^2}{4y}\right) \frac{9y^4}{4x^7}$$

$$(4.8) \quad \frac{-8x^6y^{-3}}{3x^{-2}y^{-5}} \left(\frac{-6x^{-10}y}{-4x}\right) - \frac{4y^3}{x^3}$$

$$(4.9) \quad \frac{4x^{-2}y^{-1}}{3x^{-3}} \left(\frac{6x^{-3}y^{-2}}{8y^{-7}}\right) \frac{y^4}{x^2}$$

$$(4.10) \quad \frac{(4x^2y^3)^{-1}}{3y} \left(\frac{(2xy^2)^2}{x^{-3}}\right) \frac{x^3}{3}$$

$$(4.11) \quad \left(\frac{2x^2y}{3y}\right)^{-3} \left(\frac{4y^3}{x^4}\right)^2 \frac{54y^6}{x^{14}}$$