

Homework Week 15

Period _____

Simplify. Your answer should contain only positive exponents.

1) $2a^{-2}b^{-2} \cdot a^2b^3$

2) $3y^2 \cdot x^{-3}y^3$

3) $-\frac{u^{-3}v^3}{4v}$

4) $\frac{-2x^{-4}}{-y^{-4}}$

Simplify. Write each answer in scientific notation. You will need a calculator.

5) $(1.1 \times 10^{-7})(5.82 \times 10^6)$

6) $(3.09 \times 10^9)(5.6 \times 10^6)$

7) $\frac{9 \times 10^{-4}}{7.2 \times 10^{-3}}$

8) $\frac{9.05 \times 10^6}{8.4 \times 10^6}$

Evaluate.

9) 2^0

10) 2^{-4}

11) 5^{-2}

12) 3^4