Chapter 10 Review 2

RULES:

- ANY number to the zero power equals _____.
- a^{-n} is the _____ of a^n.

Evaluate

1) $5^0 \bullet 5^3$

2) 158^0

3) $\dfrac{4^3}{4^5}$

4) $\dfrac{-3}{(-3)^5}$

Evaluate

5) $48 \bullet 2^{-4} + 5$

6) $3^{-1} \bullet 3^{-3}$

7) $\frac{1}{5^{-3}} \bullet \frac{1}{5^{6}}$

Simplify. Write the expression using only positive exponents.

8) $6y^{-4}$

9) $8^{-2} \bullet a^{7}$

10) $\dfrac{9c^{3}}{c^{-4}}$

11) $\dfrac{5b^{-2}}{b^{-3}}$

Simplify. Write the expression using only positive exponents.

12) $\dfrac{8x^3}{2x^9}$

13) $3d^{-4} \bullet 4d^4$

Simplify. Write the expression using only positive exponents.

14) $\dfrac{3^{-2} \bullet k^{0} \bullet w^{0}}{w^{-6}}$