

## Review 8.1-8.2 Worksheet Take 2

Name: \_\_\_\_\_

Evaluate the expression. Write down which exponent property you used. Write your answer using exponents and as a simplified fraction. NO DECIMALS.

1.  $(-5)^{-3}$

Exponent property: \_\_\_\_\_

Answer using exponents: \_\_\_\_\_

Simplified answer: \_\_\_\_\_

2.  $3^{-4}$

Exponent property: \_\_\_\_\_

Answer using exponents: \_\_\_\_\_

Simplified answer: \_\_\_\_\_

3.  $[(-4)^3]^2$

Exponent property: \_\_\_\_\_

Answer using exponents: \_\_\_\_\_

Simplified answer: \_\_\_\_\_

4.  $(3^{-2})^3$

Exponent property: \_\_\_\_\_

Answer using exponents: \_\_\_\_\_

Simplified answer: \_\_\_\_\_

5.  $\frac{4^6 \cdot 4^2}{4^3}$

Exponent property: \_\_\_\_\_

Answer using exponents: \_\_\_\_\_

Simplified answer: \_\_\_\_\_

6.  $10^2 \cdot \frac{1}{10^7}$

Exponent property: \_\_\_\_\_

Answer using exponents: \_\_\_\_\_

Simplified answer: \_\_\_\_\_

5.  $\left(\frac{1}{2}\right)^{-3}$

Exponent property: \_\_\_\_\_

Answer using exponents: \_\_\_\_\_

Simplified answer: \_\_\_\_\_

6.  $\frac{1}{2^{-5}}$

Exponent property: \_\_\_\_\_

Answer using exponents: \_\_\_\_\_

Simplified answer: \_\_\_\_\_

**Simplify the expression. Write down each exponent property you used.**

7.)  $(-2x)^3$

8.)  $\frac{x^{-4}}{y^{-5}}$

**Exponent properties:** \_\_\_\_\_

**Exponent properties:** \_\_\_\_\_

**Simplified answer:** \_\_\_\_\_

**Simplified answer:** \_\_\_\_\_

9.)  $10b^{-3}c^5$

10.)  $\left(\frac{6x^9}{3y^4}\right)^2$

**Exponent properties:** \_\_\_\_\_

**Exponent properties:** \_\_\_\_\_

**Simplified answer:** \_\_\_\_\_

**Simplified answer:** \_\_\_\_\_

11.)  $(3c^{-2})^3$

12.)  $y^{-10}$

**Exponent properties:** \_\_\_\_\_

**Exponent properties:** \_\_\_\_\_

**Simplified answer:** \_\_\_\_\_

**Simplified answer:** \_\_\_\_\_

13.)  $(3d^2)^3 \cdot 2d^2$

14.)  $(-4s^2)^3(2s^3)^6$

**Exponent properties:** \_\_\_\_\_

**Exponent properties:** \_\_\_\_\_

**Simplified answer:** \_\_\_\_\_

**Simplified answer:** \_\_\_\_\_