

Name _____ Period _____ Date _____

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Pre-Algebra: Exponents #7 (page 1)

Expand the following expressions, and then simplify. Leave the answer in exponential form with positive exponents.

1. $(x^4)^{-3} =$ _____

1. _____

2. $\frac{x^4}{x^{-3}} =$ _____

2. _____

3. $\frac{6x^5}{18x^3} =$ _____

3. _____

4. $\frac{3a^5}{9a^{-2}} =$ _____

4. _____

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Pre-Algebra: Exponents 7 (page 2)

Expand and Evaluate each expression when $y = 4$ and $x = 2$

5. $\frac{y^4}{x^5} =$ _____

5. _____

6. $\frac{y^3}{x^{-2}} =$ _____

6. _____

Rewrite each expression to show the rules for exponents

7. $\frac{24x^5y^3}{32x^3y^7}$

7. _____

Find the value of N in each equation

8. $x^3 \cdot x^N = x^7$

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9. $(x^{-N})^3 = x^{12}$

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