



Pre-Algebra: Exponents #8 (page 1)

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

1. $(x^2)^{-4} =$ _____

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

2. _____

3. $\frac{30x^6}{45x^3} =$ _____

3. _____

4. $\frac{18a^{-4}}{54a^2} =$ _____

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

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

5. _____

Rewrite each expression to show the rules for exponents

6. $\frac{14x^2y^5}{49x^4y^3}$

6. _____

Find the value of N in each equation

7. $\frac{x^6}{x^N} = x^5$

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8. $(x^{-N})^2 = x^8$

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