

Properties of Exponents

Common Standard

Algebra 1 The student will understand and use the properties of exponents to simplify expressions and perform operations on algebraic expressions.

Exponents follow patterns. Discover the patterns and the properties of exponents, then use the patterns to explain or justify that a rule about exponents.

Properties: Properties of Exponents

$$\begin{aligned} a^m \cdot a^n &= a^{m+n} \\ \frac{a^m}{a^n} &= a^{m-n} \end{aligned}$$

$$\begin{aligned} a^m \cdot a^n &= a^{m \cdot n} \\ \frac{a^m}{a^n} &= a^{\frac{m}{n}} \end{aligned}$$

$$\begin{aligned} a^m \cdot a^n &= a^{m+n} \\ \frac{a^m}{a^n} &= a^{m-n} \end{aligned}$$

Example

Simplify each product or quotient involving only positive exponents.

a. $3x^2y^3 \cdot 4x^5y^2$

$$\begin{aligned} 3x^2y^3 \cdot 4x^5y^2 &= 12x^{2+5}y^{3+2} \\ &= 12x^7y^5 \\ &= 12x^7y^5 \end{aligned}$$

b. $2x^3y^4 \cdot 3x^2y^3$

$$\begin{aligned} 2x^3y^4 \cdot 3x^2y^3 &= 6x^{3+2}y^{4+3} \\ &= 6x^5y^7 \\ &= 6x^5y^7 \end{aligned}$$

c. $\frac{6x^3y^4}{2x^2y^3}$

$$\begin{aligned} \frac{6x^3y^4}{2x^2y^3} &= \frac{6}{2}x^{3-2}y^{4-3} \\ &= 3x^1y^1 \\ &= 3xy \end{aligned}$$

Exercises

Simplify each expression. Show only positive exponents.

1. $2x^3y^4 \cdot 3x^2y^3$

2. $4x^5y^6 \cdot 5x^4y^5$

3. $\frac{8x^3y^4}{2x^2y^3}$

4. $3x^2y^3 \cdot 4x^5y^2$

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

6. $\frac{12x^3y^4}{3x^2y^3} \cdot 2$

7. $2x^3y^4 \cdot 3x^2y^3$

8. $\frac{8x^3y^4}{2x^2y^3}$

9. $\frac{12x^3y^4}{3x^2y^3}$

10. $\frac{6x^3y^4}{2x^2y^3} \cdot 2$

11. $\frac{12x^3y^4}{3x^2y^3} \cdot 2$

12. $\frac{12x^3y^4}{3x^2y^3} \cdot 2$

13. $2x^3y^4 \cdot 3x^2y^3$

14. $\frac{8x^3y^4}{2x^2y^3}$

15. $\frac{12x^3y^4}{3x^2y^3}$

16. $\frac{6x^3y^4}{2x^2y^3} \cdot 2$

17. $\frac{12x^3y^4}{3x^2y^3} \cdot 2$

18. $\frac{12x^3y^4}{3x^2y^3} \cdot 2$

Check: Simplifying $2x^3y^4 \cdot 3x^2y^3$ gives $6x^5y^7$. Simplifying $\frac{8x^3y^4}{2x^2y^3}$ gives $4x^1y^1$. Simplifying $\frac{12x^3y^4}{3x^2y^3}$ gives $4x^1y^1$. Simplifying $\frac{6x^3y^4}{2x^2y^3} \cdot 2$ gives $4x^1y^1$. Simplifying $\frac{12x^3y^4}{3x^2y^3} \cdot 2$ gives $4x^1y^1$. Simplifying $\frac{12x^3y^4}{3x^2y^3} \cdot 2$ gives $4x^1y^1$.

Concept Byte Properties Of Exponents

Tobias Bleicker



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Table of Contents Concept Byte Properties Of Exponents

1. Understanding the eBook Concept Byte Properties Of Exponents
 - The Rise of Digital Reading Concept Byte Properties Of Exponents
 - Advantages of eBooks Over Traditional Books
2. Identifying Concept Byte Properties Of Exponents
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Concept Byte Properties Of Exponents
 - User-Friendly Interface
4. Exploring eBook Recommendations from Concept Byte Properties Of Exponents
 - Personalized Recommendations
 - Concept Byte Properties Of Exponents User Reviews and Ratings
 - Concept Byte Properties Of Exponents and Bestseller Lists
5. Accessing Concept Byte Properties Of Exponents Free and Paid eBooks
 - Concept Byte Properties Of Exponents Public Domain eBooks
 - Concept Byte Properties Of Exponents eBook Subscription Services
 - Concept Byte Properties Of Exponents Budget-Friendly Options
6. Navigating Concept Byte Properties Of Exponents eBook Formats

- ePub, PDF, MOBI, and More
 - Concept Byte Properties Of Exponents Compatibility with Devices
 - Concept Byte Properties Of Exponents Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Concept Byte Properties Of Exponents
 - Highlighting and Note-Taking Concept Byte Properties Of Exponents
 - Interactive Elements Concept Byte Properties Of Exponents
 8. Staying Engaged with Concept Byte Properties Of Exponents
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Concept Byte Properties Of Exponents
 9. Balancing eBooks and Physical Books Concept Byte Properties Of Exponents
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Concept Byte Properties Of Exponents
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Concept Byte Properties Of Exponents
 - Setting Reading Goals Concept Byte Properties Of Exponents
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Concept Byte Properties Of Exponents
 - Fact-Checking eBook Content of Concept Byte Properties Of Exponents
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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