

## Properties of Exponents

### Common Standard

**Algebra 1** The student will understand the properties of operations and use them to solve problems involving rational numbers.

Exponents follow patterns. Discover the patterns and the properties of exponents. Observe that no denominator is equal to zero and that no root of zero is defined.

### Properties: Properties of Exponents

$$a^m \cdot a^n = a^{m+n}$$

$$\frac{a^m}{a^n} = a^{m-n}$$

$$a^m \cdot b^m = (ab)^m$$

$$\frac{a^m}{b^m} = \left(\frac{a}{b}\right)^m$$

$$\frac{a^m}{a^n} = a^{m-n}$$

### Example

Simplify each product or quotient involving only positive exponents.

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

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

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

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

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

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

### Exercises

Simplify each expression. Use only positive exponents.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**Check:** Simplifying  $2x^3y^2 \cdot 3x^2y^3$  to  $6x^5y^5$  and  $\frac{5x^3y^2}{3x^2y^3}$  to  $\frac{5x}{3y}$  and the properties of exponents correctly. Repeat with all other problems.

# Concept Byte Properties Of Exponents

**Richard S. Hammond**



## **Concept Byte Properties Of Exponents:**

**College Algebra: Graphs & Models** John Coburn,J.D. (John) Herdlick,2011 Three components contribute to a theme sustained throughout the Coburn Herdlick Series that of laying a firm foundation building a solid framework and providing strong connections In the Graphs and Models texts the authors combine their depth of experience with the conversational style and the wealth of applications that the Coburn Herdlick texts have become known for By combining a graphical approach to problem solving with algebraic methods students learn how to relate their mathematical knowledge to the outside world The authors use technology to solve the more true to life equation *College Algebra* John Coburn,Jeremy Coffelt,2013-01-11 When Julie Miller began writing her successful developmental math series one of her primary goals was to bridge the gap between preparatory courses and college algebra For thousands of students the Miller O Neill Hyde or M O H series has provided a solid foundation in developmental mathematics With the Miller College Algebra series Julie has carried forward her clear concise writing style highly effective pedagogical features and complete author created technological package to students in this course area The main objectives of the college algebra series are three fold Provide students with a clear and logical presentation of the basic concepts that will prepare them for continued study in mathematics Help students develop logical thinking and problem solving skills that will benefit them in all aspects of life Motivate students by demonstrating the significance of mathematics in their lives through practical applications *College Algebra Essentials* John Coburn,Jeremy Coffelt,2013-01-11 When Julie Miller began writing her successful developmental math series one of her primary goals was to bridge the gap between preparatory courses and college algebra For thousands of students the Miller O Neill Hyde or M O H series has provided a solid foundation in developmental mathematics With the Miller College Algebra series Julie has carried forward her clear concise writing style highly effective pedagogical features and complete author created technological package to students in this course area The main objectives of the college algebra series are three fold Provide students with a clear and logical presentation of the basic concepts that will prepare them for continued study in mathematics Help students develop logical thinking and problem solving skills that will benefit them in all aspects of life Motivate students by demonstrating the significance of mathematics in their lives through practical applications **Byte**,1986 **Energy Research Abstracts** ,1989 **Electrical & Electronics Abstracts** ,1994 **Elementary Algebra** Marvin L. Bittinger,David Ellenbogen,2006 Appropriate for a one term course in elementary algebra this text is intended for those students who have a firm background in arithmetic *Journal of Mathematical Systems, Estimation, and Control* ,1998 *The Software Encyclopedia* ,1988 **SPE Drilling Engineering** ,1989 *Government Reports Announcements & Index* ,1991 **Problems in Exponents** Richard S. Hammond,2019-03-08 Exponents are one of the most important basics of Mathematics especially in calculation Exponents are also used in some important applications This includes compound interest the growth of population and bacteria growth That is understanding well about the definitions and

properties of exponents are really needed in learning Mathematics Problems in Exponents is a book that was written about the foundations of exponents There are three main chapters in this little book The first chapter of this book is about the answers to the question what is exponents This chapter will relate the readers to the definition of exponents and some significant properties of them such as the multiplication or division of two powers that have the same base power of power the 0th power of a number etc The second chapter of this book is about exponential equations This chapter is little bit harder than the first chapter of this book In this chapter we tell the readers about the rule in solving exponential equations We give some examples to illustrate about how to solve exponential equations Additionally there are some exercises at the end of the chapter We list some good problems to the readers to solve it by using what they have learnt in the first two chapters The last part of this book is about exponential inequalities Another important section in exponents is exponential inequalities In this chapter we explain the readers by using problem solution strategy We solve all of problems step by step We try to simplify this book to help readers understand clearly about exponents We hope this little book will become the readers close friend when they think about exponents Richard S Hammond

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