

Properties of Exponents

Common Standard

Algebra 1 The student is expected to 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. 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. $3x^2y^3 \cdot 4x^3y^2$

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

b. $2-3x^2y^3$

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

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

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

Exercises

Simplify each expression. Show only positive exponents.

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

2. $2-3x^2y^3$

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

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

5. $2-3x^2y^3$

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

7. $2-3x^2y^3$

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

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

10. $3x^2y^3 \cdot 4x^3y^2$

11. $2-3x^2y^3$

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

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

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

15. $2-3x^2y^3$

16. $3x^2y^3 \cdot 4x^3y^2$

17. $2-3x^2y^3$

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

Check: Simplify $(3x^2y^3 \cdot 4x^3y^2)^{-1}$ in two ways. First, simplify $3x^2y^3 \cdot 4x^3y^2$ and then apply the properties of exponents. Second, simplify $(3x^2y^3)^{-1} \cdot (4x^3y^2)^{-1}$.

Concept Byte Properties Of Exponents

Emilie Sanchez



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