

Properties of Exponents

Common Standard

Algebra 1 The student is expected to understand and use the properties of exponents to simplify and solve problems involving real numbers, using appropriate representations.

Exponents follow patterns. Describe below how the properties of exponents illustrate that no exponent is equal to zero that is not a real integer.

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 involving positive exponents.

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

$$\begin{aligned} 3x^2y \cdot 4x^3y^2 &= 12x^{2+3}y^{1+2} \\ &= 12x^5y^3 \\ &= 12x^5y^3 \end{aligned}$$

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

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

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

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

Exercises

Simplify each expression. Show only positive exponents.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Check: Remember, that $x^{-1}y^1$ is $\frac{y}{x}$ and that x^1y^{-1} is $\frac{x}{y}$. Use the properties of exponents to simplify the expressions above.

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M Carnoy



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