

Inverse Multiplication Properties of Exponents

$$(b^m)^n = b^{mn}$$

*power to a power → multiply the powers

Remember to follow order of operations!

$$\text{Example: } (b^3)^4 = b^{12}$$

$$(b^3)^4 = b^{3 \cdot 4} = b^{12}$$

multiply exponents $3 \cdot 4 = 12$

$$= b^{12} = b^{12}$$

finally,

$$= b^{12} = b^{12}$$

add exponents when multiplying powers with the same base

$$= b^{12}$$

finally,

$$= b^{12}$$

raising only positive exponents

Remember to follow order of operations!

$$(ab)^n = a^n b^n$$

*product to a power → distribute the power to everything multiplied inside ()

$$\text{Example: } (x^2 y^3)^4 = (x^2)^4 (y^3)^4$$

$$(x^2 y^3)^4 = (x^2)^4 \cdot (y^3)^4$$

distribute the factor to the 4th power

$$= x^8 \cdot y^{12}$$

multiply the exponents of a power raised to a power

$$= x^8 \cdot y^{12} = x^8 y^{12}$$

for the Commutative Property of Multiplication

$$= x^8 y^{12}$$

add exponents of powers with the same base

$$= x^8 y^{12}$$

finally

Division Properties of Exponents

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

*powers + bases

→ - the powers

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

$$= b^{m-n}$$

$$= b^{m-n}$$

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

*fraction to power

→ both numerator & denominator raised to power

Modeling scientific notation

- Divide the numbers to find
- Subtract the powers to find
- You may need to adjust to put in proper scientific notation

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

*fraction to power

→ flip fractions, now raised to power, follow last rule

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

write in scientific notation

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

add exponents when dividing powers with the same base

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

multiply the exponents

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

divide based on the power rule

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

write in scientific notation

Geometric Sequences

a sequence formed by multiplying each term by a fixed number

Common ratio (r) the fixed number that is repeatedly multiplied (or divided) in a geometric sequence

Know how to determine whether each sequence is geometric or arithmetic (adding fixed number)

Formula for geometric sequence $A(n) = a \cdot r^{n-1}$ $A(n)$ = the n^{th} term, a = first term of sequence, r = the common ratio, n = term number

Suppose you drop a tennis ball from a height of 100 cm. After each bounce, the ball reaches a height that is 80% of its previous height. Write a rule for the height the ball reaches at the top of each arc. What is the height of the ball at the top of the fourth arc?

$$A(n) = 100 \cdot (0.8)^{n-1} \rightarrow A(4) = 100 \cdot (0.8)^{4-1}$$

$$A(4) = 100 \cdot (0.512)$$

$$A(4) = 51.2 \text{ cm. "ball"}$$

Exponential Functions Study Guide

DP Hallahan



Exponential Functions Study Guide:

The book delves into Exponential Functions Study Guide. Exponential Functions Study Guide is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Exponential Functions Study Guide, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 1: Introduction to Exponential Functions Study Guide
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