

Inverse Multiplication Properties of Exponents

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

*power to a power → multiply the powers

Remember to follow order of operations!

$$\text{Example: } (b^2)^3 = b^6$$

$$(b^2)^3 = b^{2 \cdot 3} = b^6$$

$$= b^2 \cdot b^2 \cdot b^2$$

$$= b^{2+2+2}$$

$$= b^6$$

$$= b^6$$

$$= b^6$$

multiply exponents $(2 \cdot 3) = 6$

simplify

add exponents when multiplying powers with the same base

simplify

remember 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 ()

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

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

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

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

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

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

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

distribute the factor to the 4th power

multiply the exponents of a power raised to a power

for the Commutative Property of Multiplication

add exponents of powers with the same base

simplify

Division Properties of Exponents

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

*powers + bases

→ subtract the powers

$$\frac{b^5}{b^2} = b^{5-2} = b^3$$

$$= b^3$$

$$= b^3$$

$$= b^3$$

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

*fraction to power

→ both numerator & denominator raised to power

Converting scientific notations

- Divide the numbers in front
- Subtract the powers of 10
- 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

$$\frac{10^3}{10^5} = 10^{3-5} = 10^{-2}$$

$$= 10^{-2}$$

$$= 10^{-2}$$

$$= 10^{-2}$$

$$= 10^{-2}$$

write in scientific notation

subtract exponents, when dividing powers with the same base

simplify the exponents

convert based on the power base

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 sequences $A(n) = a \cdot r^{n-1}$ $A(n)$ = 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

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