

Product of Powers

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

When multiplying like **bases**, add the **exponents**

Quotient of Powers

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

When dividing like **bases**, subtract the **exponents**

Simplify the expressions

$$(2.5 \times 10^8)(3.4 \times 10^{-4})$$

$$(1.2 \times 10^{-9})(4.1 \times 10^5)$$

Product of Powers

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

Quotient of Powers

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

Simplify the expressions

$$(3.6 \times 10^{-6})(4.5 \times 10^2)$$

$$(5.1 \times 10^8)(9.4 \times 10^{-2})$$

Product of Powers

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

Quotient of Powers

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

Simplify the expressions

$$\frac{(6.4 \times 10^5)}{(1.6 \times 10^{-4})}$$

$$\frac{(4.2 \times 10^{-2})}{(2.4 \times 10^8)}$$

Product of Powers

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Quotient of Powers

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Simplify the expressions

$$\frac{(2.4 \times 10^8)}{(3.2 \times 10^3)}$$

$$\frac{(4.2 \times 10^{12})}{(4.8 \times 10^{-4})}$$

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Product of Powers

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

When multiplying like bases, add the exponents

Quotient of Powers

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

When dividing like bases, subtract the exponents