

# Properties of Exponents

## Properties of Exponents

Properties of Exponents  
Product of Powers Property  
Quotient of Powers Property  
Power of a Power Property  
Power of a Product Property  
Power of a Quotient Property

Properties of Exponents: Properties of Exponents are the properties of exponents that tell us how to manipulate or simplify exponents when we multiply or divide them.

Product of Powers	Quotient of Powers	Power of a Power
$a^m \cdot a^n = a^{m+n}$	$\frac{a^m}{a^n} = a^{m-n}$	$(a^m)^n = a^{m \cdot n}$

### Properties of Exponents

Properties of Exponents are the properties of exponents that tell us how to manipulate or simplify exponents when we multiply or divide them.

(a)  $a^m \cdot a^n = a^{m+n}$

$$\begin{aligned} \text{Example: } & 2^3 \cdot 2^4 = 2^{3+4} \\ & 2^3 \cdot 2^4 = 2^7 \\ & 2^3 \cdot 2^4 = 128 \end{aligned}$$

(b)  $\frac{a^m}{a^n} = a^{m-n}$

$$\begin{aligned} \text{Example: } & \frac{2^5}{2^3} = 2^{5-3} \\ & \frac{2^5}{2^3} = 2^2 \\ & \frac{2^5}{2^3} = 4 \end{aligned}$$

(c)  $(a^m)^n = a^{m \cdot n}$

$$\begin{aligned} \text{Example: } & (2^3)^2 = 2^{3 \cdot 2} \\ & (2^3)^2 = 2^6 \\ & (2^3)^2 = 64 \end{aligned}$$

### Properties of Exponents

Properties of Exponents are the properties of exponents that tell us how to manipulate or simplify exponents when we multiply or divide them.

(d)  $a^{-n} = \frac{1}{a^n}$

(e)  $a^0 = 1$

(f)  $a^{\frac{m}{n}} = \sqrt[n]{a^m}$

(g)  $a^{\frac{m}{n}} = \sqrt[n]{a^m}$

(h)  $a^{\frac{m}{n}} = \sqrt[n]{a^m}$

(i)  $a^{\frac{m}{n}} = \sqrt[n]{a^m}$

(j)  $a^{\frac{m}{n}} = \sqrt[n]{a^m}$

(k)  $a^{\frac{m}{n}} = \sqrt[n]{a^m}$

(l)  $a^{\frac{m}{n}} = \sqrt[n]{a^m}$

(m)  $a^{\frac{m}{n}} = \sqrt[n]{a^m}$

(n)  $a^{\frac{m}{n}} = \sqrt[n]{a^m}$

(o)  $a^{\frac{m}{n}} = \sqrt[n]{a^m}$

(p)  $a^{\frac{m}{n}} = \sqrt[n]{a^m}$

(q)  $a^{\frac{m}{n}} = \sqrt[n]{a^m}$

(r)  $a^{\frac{m}{n}} = \sqrt[n]{a^m}$

(s)  $a^{\frac{m}{n}} = \sqrt[n]{a^m}$

(t)  $a^{\frac{m}{n}} = \sqrt[n]{a^m}$

(u)  $a^{\frac{m}{n}} = \sqrt[n]{a^m}$

(v)  $a^{\frac{m}{n}} = \sqrt[n]{a^m}$

(w)  $a^{\frac{m}{n}} = \sqrt[n]{a^m}$

(x)  $a^{\frac{m}{n}} = \sqrt[n]{a^m}$

(y)  $a^{\frac{m}{n}} = \sqrt[n]{a^m}$

(z)  $a^{\frac{m}{n}} = \sqrt[n]{a^m}$

(aa)  $a^{\frac{m}{n}} = \sqrt[n]{a^m}$

Properties of Exponents: Properties of Exponents are the properties of exponents that tell us how to manipulate or simplify exponents when we multiply or divide them.

# Concept Byte Properties Of Exponents

**Richard S. Hammond**

## Concept Byte Properties Of Exponents:

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