

LAWS OF EXPONENTS

Law

1. $a^m a^n = a^{m+n}$

2. $\frac{a^m}{a^n} = a^{m-n}$

3. $(a^m)^n = a^{mn}$

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

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

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

7. $\frac{a^{-n}}{b^{-m}} = \frac{b^m}{a^n}$

Example

$$3^2 \cdot 3^5 = 3^{2+5} = 3^7$$

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

$$(3^2)^5 = 3^{2 \cdot 5} = 3^{10}$$

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

$$\left(\frac{3}{4}\right)^2 = \frac{3^2}{4^2}$$

$$\left(\frac{3}{4}\right)^{-2} = \left(\frac{4}{3}\right)^2$$

$$\frac{3^{-2}}{4^{-5}} = \frac{4^5}{3^2}$$

Algebra Extending The Law Of Exponents

Sabine Zange



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n and $n \times m$ respectively by the law of matrix multiplication their elements are $e_{ij} \times n \times k \times 1$ $a_{ik} \times j \times a_{ij} \times d$ and $f_{ij} \times n \times k \times 1$ $i \times k \times d \times i \times b$ $k \times j \times i \times b$ thus post multiplying a by d is the column operation

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