

Potenzen

$$a^{\frac{1}{m}} = \sqrt[m]{a}$$

$$a^{-r} = \frac{1}{a^r}$$

$$(a^r)^s = a^{r \cdot s}$$

$$a^r \cdot a^s = a^{r+s}$$

$$\frac{a^r}{a^s} = a^{r-s}$$

$$a^r \cdot b^r = (ab)^r$$

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

$$a^n = \underbrace{a \cdot a \cdot a \cdot \dots \cdot a}_{n\text{-Faktoren}}$$

a = die Basis

n = den Exponent

$$a^0 = 1$$

$e = 2,718$ eulersche Zahl

$$a^1 = a$$

$$e^0 = 1 \quad e^1 = e$$

$$a^{-m} = \frac{1}{a^m}$$

$$a^{\frac{1}{m}} = \sqrt[m]{a} \quad a > 0$$