

Potenzen und Wurzeln	
Schreibweise	
$\underbrace{a \cdot a \cdot \dots \cdot a}_{n\text{-mal}} = a^n$	$\sqrt[n]{a} = a^{\frac{1}{n}}$
Rechenregeln	
$a^m \cdot a^n = a^{m+n}$ $\frac{a^m}{a^n} = a^{m-n}$ $(a^m)^n = a^{mn}$ $a^n \cdot b^n = (ab)^n$ $\frac{a^n}{b^n} = \left(\frac{a}{b}\right)^n$ $a^{-n} = \left(\frac{1}{a}\right)^n$	$\sqrt[m]{a} \cdot \sqrt[n]{a} = \sqrt{mn}{a^{n+m}}$ $\frac{\sqrt[n]{a}}{\sqrt[n]{b}} = \sqrt[n]{\frac{a}{b}}$ $(\sqrt[n]{a})^m = \sqrt[n]{a^m}$ $\sqrt[m]{\sqrt[n]{a}} = \sqrt{mn}{a}$ $a^{p/q} = \sqrt[q]{a^p}$ $a^{-1/n} = \sqrt[n]{\frac{1}{a}}$
Spezielle Exponenten	
$a^0 = 1$ $a^1 = a$	