

Properties of Exponents

- $b^x b^y = b^{x+y}$
- $\frac{b^x}{b^y} = b^{x-y}$
- $(b^x)^y = b^{xy}$
- $(ab)^x = a^x b^x$
- $\left(\frac{a}{b}\right)^x = \frac{a^x}{b^x}$
- $b^0 = 1$
- $b^{-x} = \frac{1}{b^x}$
- $b^{m/n} = \sqrt[n]{b^m} = (\sqrt[n]{b})^m$