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| **The Exponent Rules**  | $$\left(ab\right)^{n}=a^{n}b^{n}$$$$\left(\frac{a}{b}\right)^{n}=\frac{a^{n}}{b^{n}}$$$$a^{1}=a$$$$a^{0}=1$$ |
| $$a^{m}⋅a^{n}=a^{m+n}$$$$\frac{a^{m}}{a^{n}}=a^{m-n}$$$$\left(a^{m}\right)^{n}=a^{m⋅n}$$$a^{-n}=\frac{1}{a^{n}}$ and $\frac{1}{b^{-n}}=b^{n}$ |