

# LAWS of EXPONENTS

$$1. A^0 = 1$$

$$2. A^{-N} = \frac{1}{A^N}$$

$$3. A^{\frac{M}{N}} = \left( \sqrt[N]{A} \right)^M$$

$$4. A^M \cdot A^N = A^{M+N}$$

$$5. \frac{A^M}{A^N} = A^{M-N}$$

$$6. (A^M)^N = A^{M \cdot N}$$

$$7. (A \cdot B)^M = A^M \cdot B^M$$

$$8. \left( \frac{A}{B} \right)^M = \frac{A^M}{B^M}$$