

Power Rule 2: When Raising Powers to Another Power

To raise a power to a power, raise each factor to that power.

$$\text{Example: } (ab)^3 = a^3b^3$$

Power Rule 3: When Raising Powers to Another Power

To raise a quotient to a power, raise the numerator and the denominator to that power.

$$\text{Example: } (a/b)^4 = a^4/b^4$$

Exponent of 1: A Power with an Exponent of One

When evaluating a power with an exponent of one, the answer will be the base.

$$\text{Example: } a^1 = a$$

Exponent of 0: A Power with an Exponent of Zero

When evaluating a power with an exponent of zero, the answer will be one.

$$\text{Example: } a^0 = 1$$