Exponent Rules

Exponent of Zero	$a^0 = 1$ for $a \neq 0$
Negative Exponents	$a^{-n} = 1/a^n$ for $a \neq 0$ Never leave a negative exponent -> take reciprocal & make exponent positive
Product of Powers	$a^m \bullet a^n = a^{m+n}$ When multiplying same bases, keep base & add exponents
Quotient of Powers	$a^m/a^n = a^{m-n}$ for $a \neq 0$ When dividing same bases, keep base & subtract exponents
Power of Power	$(a^m)^n = a^{mn}$ When you have a power to power, keep base & multiply exponents
Power of Product	$(ab)^m = a^m b^m$ When a product is to a power, apply power to both factors