	Zero Exponent
	Negative Exponent
	Product of Powers Property
	Quotient of Powers Property
	Power of a Power Property
	Power of a Product Property
	Power of a Quotient Property

$a^0 = 1$ $-a^0 = -1$ The power of zero is always 1 or -1. 0^0 is undefined.	
$a^{-n} = \frac{1}{a^n}$ Find the positive reciprocal of the negative exponent.	
$a^m \cdot a^n = a^{m+n}$ To multiple powers with the same base, add the exponents.	
$\frac{a^m}{a^n} = a^{m-n}$ To divide powers with the same base, subtract the exponents.	
$(a^m)^n = a^{mn}$ To find a power of a power, multiple the exponents.	
$(ab)^m = a^m b^m$ To find a power of a product, find the power of each factor and multiply.	
$\left(\frac{a}{b}\right)^m = \left(\frac{a^m}{b^m}\right)$ To find the power of a quotient, find the power of the numerator and the power of the denominator and divide.	