Exponentials

Rule 1.   When you multiply numbers with the same base, add the
             exponents. $A^m \cdot A^n = A^{m+n}$

Rule 2.   When you subtract numbers with the same base, subtract the
             exponents. $A^m \div A^n = A^{m-n}$

Rule 3.   Any number to the zero power, except 0, equals 1.
             $A^0 = 1, A \neq 0$