Rules of Exponents and Logarithms

**Quantity to the zero power**

Rule: Any non-zero quantity raised to the zero power is 1

Example:

**Quantity to a negative power**

Rule:

Example:

**Fractional Exponents**

Rule:

Example:

**Multiplication of like bases**

Rule:

Example:

**Raising a power to a power**

Rule:

Example:

**Logarithm of a product**

Rule:

Example:

**Logarithm of a quotient**

Rule:

Example:

**Logarithm of a power**

Rule:

Example:

**Change of base**

Rule:

Example: