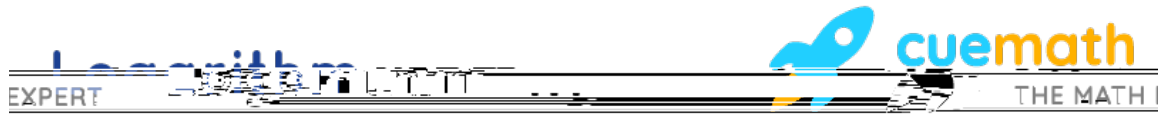


Log Formulas - What Are Logarithm Formulas? Examples



$$b^x = a \Leftrightarrow \log_b a = x$$

Argument

base

What are Log Formulas?

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Rule Name	Formula
Log of 1	$\log_b 1 = 0$
Log of the same number as the base	$\log_b b = 1$
Product Rule	$\log_b (xy) = \log_b x + \log_b y$
Quotient Rule	$\log_b \left(\frac{x}{y}\right) = \log_b x - \log_b y$
Power Rule	$\log_b a^x = x \log_b a$
Change of Base Rule	$\log_b a = \frac{\log_c a}{\log_c b}$ (OR) $\log_b a \cdot \log_c b = \log_c a$
Equality Rule	$\log_b a = \log_b c \Rightarrow a = c$
Other Rule	$\log_b a^m = \frac{m}{n} \log_b a$ $-\log_b a = \log_b \frac{1}{a}$ (OR)

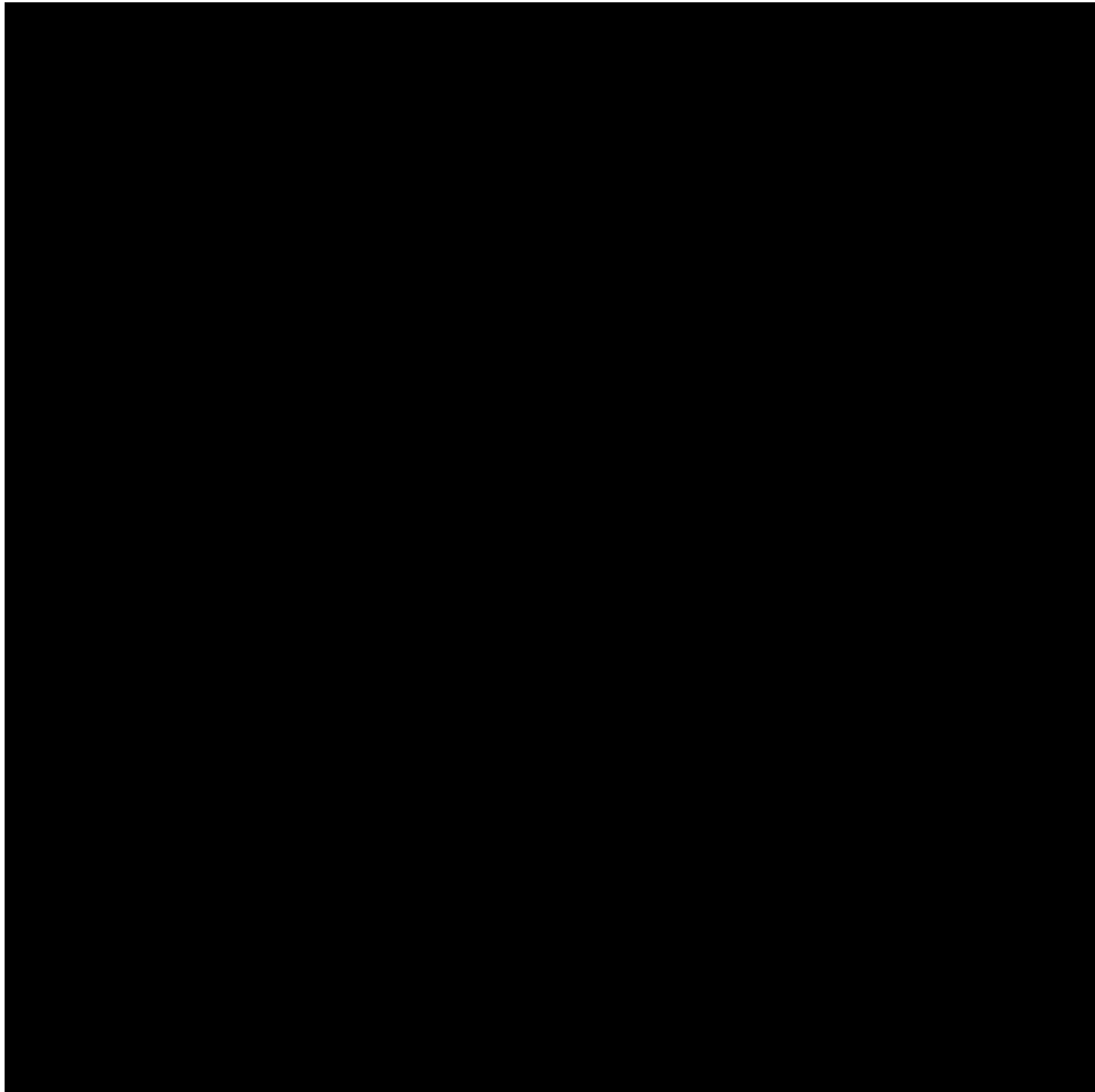
Logarithmic Formulas Derivation

Product Formula of logarithms

Quotient Formula of logarithms

Power Formula of Logarithms

Change of Base Formula of Logarithms



Examples Using Logarithm Formulas

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FAQs on Log Formulas

What are Logarithm Formulas?

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How To Derive Log Formulas?

What are the Applications of Log Formulas?

Which Logarithm Formula is Used to Change the Base of a Logarithm?

What is the Use of the Change of Base Formula (One of the Logarithmic Formulas)?

What are Natural Logarithmic Formulas?

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