

Math 30-1: Exponential & Logarithmic Functions – Unit 5

Review of the Exponent Laws

$$3 \times 3 \times 3 \times 3 = 3^4$$

3 is the base, 4 is the exponent and 3^4 is a power.

Laws

$$a^m \times a^n = a^{m+n}$$

$$\frac{a^m}{a^n} = a^{m-n}$$

$$(a^m)^n = a^{mn}$$

$$(ab)^n = a^n b^n$$

$$a^{-n} = \frac{1}{a^n}$$

$$\left(\frac{a}{b}\right)^{-n} = \left(\frac{b}{a}\right)^n$$

$$a^{\frac{m}{n}} = \sqrt[n]{a^m}$$

Laws of Logarithms

$$\log_a (M \times N) = \log_a M + \log_a N$$

$$\log_a \left(\frac{M}{N}\right) = \log_a M - \log_a N$$

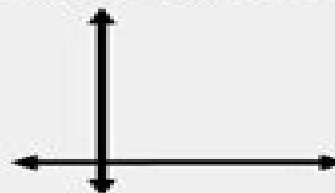
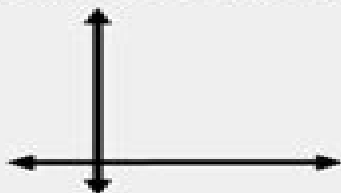
$$\log_a M^n = n \log_a M$$

Change of Base Formula:

$$\log_b c = \frac{\log_a c}{\log_a b}$$

Exponential Function

- A function of the form $y = c^x$, where c is a constant ($c > 0$) and x is a variable.



$$y = c^x \longrightarrow y = a(c)^{b(x-h)} + k$$

Review Sheet Exponential And Logarithmic Functions

Math 120

Minjie Lin



Review Sheet Exponential And Logarithmic Functions Math 120:

This book delves into Review Sheet Exponential And Logarithmic Functions Math 120. Review Sheet Exponential And Logarithmic Functions Math 120 is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Review Sheet Exponential And Logarithmic Functions Math 120, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Review Sheet Exponential And Logarithmic Functions Math 120
 - Chapter 2: Essential Elements of Review Sheet Exponential And Logarithmic Functions Math 120
 - Chapter 3: Review Sheet Exponential And Logarithmic Functions Math 120 in Everyday Life
 - Chapter 4: Review Sheet Exponential And Logarithmic Functions Math 120 in Specific Contexts
 - Chapter 5: Conclusion
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- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Review Sheet Exponential And Logarithmic Functions Math 120.

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