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College Algebra Ch 6.7 Exponential and

Log models # 3 ~~Chapter 5 Exponential~~

~~And Logarithmic~~

Chapter 5: Exponential and Logarithmic

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Exponential And

Logarithmic Functions. In this chapter, we will explore exponential functions, which can be used for, among other things, modeling growth patterns such as those found in bacteria. We will also investigate logarithmic functions, which are closely related to exponential functions.

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~~Chapter 5: Exponential and Logarithmic Functions ...~~

Chapter 5 Exponential and Logarithmic Functions. 5.1 Exponential Functions. A function of the form $y = f(x) = a^x$ is called an exponential function. The base a is a constant, positive and not equal to 1. The graph of an exponential function is

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continuous and defined for all. x .

However, the value.

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Exponential and logarithmic functions

Objectives To graph exponential and

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To graph transformations of the graphs of exponential and logarithmic functions. To introduce Euler's number. To revise the index and logarithm laws. To solve exponential and logarithmic equations.

~~Exponential and logarithmic functions~~

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As with exponential equations, we can use the one-to-one property to solve logarithmic equations. The one-to-one property of logarithmic functions tells us that, for any real numbers $x > 0$, $S > 0$, $T > 0$ and any positive real number b , where $b \neq 1$,
If $\log_b S = \log_b T$ then $S = T$. If $\log_2 (x+1) = \log_2 (8)$, then $x+1 = 8$.

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~~5.7: Exponential and Logarithmic Equations Mathematics ...~~

The natural exponential function is e^x and the natural logarithmic function is $\ln x$. Given an exponential function or logarithmic function in base a , we can make a change of base to convert this function to any base b .

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We typically convert to base e . The hyperbolic functions involve combinations of the exponential functions and e^{-x} . As a result, the inverse hyperbolic functions involve the natural logarithm.

~~1.5 Exponential and Logarithmic
Functions □ Calculus Volume 1~~

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Write these exponential equations as

logarithmic equations: $2^3 = 8$; $5^2 = 25$

$(10^{-3} = \frac{1}{1000})$ Solution. a.

$2^3 = 8$ can be written as a logarithmic equation as $\log_2(8) = 3$ b. $5^2 = 25$ can be written as a logarithmic equation as $\log_5(25) = 2$

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~~5.4: Logarithms and Logarithmic Functions — Mathematics ...~~

Exponential and logarithmic functions are used to model population growth, cell growth, and financial growth, as well as depreciation, radioactive decay, and resource consumption, to name only a few applications. In this section, we explore

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integration involving exponential and
logarithmic functions. Integrals of
Exponential Functions

~~5.6: Integrals Involving Exponential and
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Comparing Exponential and Logarithmic
Graphs. Properties of Logarithms.
Examples of Logarithm Problems. Lesson
5-5. Solving Log and Exponential
Equations. Solving Natural Logarithmic
Equations. Solving Logarithmic and

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Test. Homework Pg. 363 #8-18 evens,
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Definite Integrals of Exponentials and
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Exponential and Logarithmic Functions

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Chapter 5 EXPRESSING

EXPONENTIAL FUNCTIONS IN THE

FORMS $y = abt^k$ and $y = aekt$ Now that

we've developed our equation solving skills, we revisit the question of expressing

exponential functions equivalently in the

forms $y = abt^k$ and $y = aekt$

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~~Chapter 5: Exponential and Logarithmic Functions~~

Even for people who already are familiar with logarithms there is probably something new in this chapter.

Logarithms. A logarithm is a way of writing one number (x) expressed as a power (index) of a second number (y)

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which is called the base, and which must be a real number >1 . Some examples should make clear what this means.

~~Logarithms: exponential and logarithmic functions (Chapter ...~~

Title: Chapter 5: Exponential and
Logarithmic Functions 1 Chapter 5

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Daisy Song and Emily Shifflett; 2 Table of Contents. 5.1 Composite Functions ; 5.2 One-to-One Functions Inverse Functions

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4.2 Logarithmic Functions Example 3 □

Graph of a Logarithmic Function with $b >$

1 Sketch the graph of $y = \log_2 x$. Solution:

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Chapter 4: Exponential and Logarithmic

Functions 4.2 Logarithmic Functions

Example 5 □ Finding Logarithms a.

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Section 1. The Natural Logarithmic
Function: Differentiation Problem 1 ...

~~Logarithmic, Exponential, and Other
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