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~~Derivatives of
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And
Functions \u0026
Logarithmic~~

~~Differentiation~~

~~Calculus, $\ln x$,~~

~~e^{2x} , x^x ,~~

~~$x^{\sin x}$ What's so~~

~~special about~~

~~Euler's number~~

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5: FUNCTIONS

\u0026 GRAPHS |

5.4 EXPONENTIAL

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Logarithmic Fn |

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5.4 introThe

~~Exponential~~

~~Function e and~~

~~The Natural Log~~

~~In~~ **What is the**

number e and

where does it

come from? how

to assemble

Sewing machine

tension | Sewing

machine tension

assemble *Singer*

Sewing Machine

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~~Exponential Assembly~~

~~Avkalan~~

~~Differentiton~~

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~~??? ????? 12~~

~~(how to solve~~

~~Differentiation)~~

An Introduction

to Logarithmic

Functions

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exponential

equation with

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~~equation |~~

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~~Euler's Number~~

~~Explained |~~

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Functions | MUST
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Exponential and

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~~Exponential And~~

~~Logarithmic~~

Chapter 5:

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Exponential And Logarithmic Functions

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

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logarithmic
functions, which
are closely
related to
exponential
functions.

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

Chapter 5
Exponential and
Logarithmic

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Exponential 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

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Exponential is continuous and defined for all x . However, the value.

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~~Exponential and~~

~~Logarithmic~~

~~Functions~~

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Logarithmic and

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Rearranging
exponential
equations. Study
text: "Essential
Mathematics and
Statistics for
Science", 2nd
Edition, G
Currell & A A
Dowman, Wiley-
Blackwell, 2009.

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Question. The
equation $y = e^x$

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Functions ...~~

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Exponential and
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functions. To
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Logarithmic
Functions
transformations
of the graphs of
exponential and
logarithmic
functions. To
introduce
Euler's number.
To revise the
index and
logarithm laws.

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To solve
exponential and
logarithmic
equations.

Functions

~~Exponential and
logarithmic
functions~~

As with
exponential
equations, we
can use the one-
to-one property
to solve

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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

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$S=T$. If $\{\log\}_2(x+1) = \{\log\}_2(8)$, then $x+1=8$.

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

The natural exponential function is and the natural logarithmic function is .

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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 . We typically convert to base e . The hyperbolic functions

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involve combinations of the exponential functions and . As a result, the inverse hyperbolic functions involve the natural logarithm.

~~1.5 Exponential and Logarithmic~~

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Chapter 5

~~Exponential~~

~~Calculus Volume~~

~~1~~

~~Logarithmic~~

~~Functions~~

Write these

exponential

equations as

logarithmic

equations: $2^3 =$

8 ; $5^2 = 25$

$\sqrt[3]{10^{-3}} =$

$\frac{1}{1000}$

Solution. a. $2^3 = 8$ can be

written as a

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

written as a
logarithmic
equation as $\log_5(25) = 2$

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

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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

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Exponential. In
this section, we
explore
Logarithmic
integration
involving
exponential and
logarithmic
functions.

Integrals of
Exponential
Functions

~~5.6: Integrals
Involving~~

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Problems. Lesson

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Solving Natural

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EXPRESSING

EXPONENTIAL

FUNCTIONS IN THE

FORMS $y = ab^x$ and

$y = aekt$ Now

that we've

developed our

equation solving

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skills, we
revisit the
question of
expressing
exponential
functions
equivalently in
the forms $y = abte$ and $y = akt$

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~~Exponential and~~
~~Logarithmic~~
~~Functions~~

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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

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(y) 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
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Functions

Inverse

Functions

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Exponential and

Logarithmic

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Exponential Functions 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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Logarithmic,
Exponential, and
Other
Transcendental
Functions.

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Natural

Logarithmic

Function:

Differentiation

Problem 1...

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~~Other~~

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