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Lesson 10

Logarithmic

Functions

Outline

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Lesson 10 Logarithmic Functions Outline

Lesson 10: Logarithmic
Functions Outline

Objectives: I can
analyze and interpret
the behavior of
logarithmic functions,
including end behavior
and asymptotes. I can
solve logarithmic
equations analytically
and graphically. I can
graph logarithmic
functions. I can

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determine the domain and range of logarithmic functions.

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Outline Logarithms 4

The parent function

$f(x) = \ln x$ has a vertical asymptote at $x = 0$. End behavior of $f(x)$ as $x \rightarrow 0^+$ is $\lim_{x \rightarrow 0^+} \ln x = -\infty$.

as $x \rightarrow \infty$ is $\lim_{x \rightarrow \infty} \ln x = \infty$. The parent function $f(x) = e^x$ has a horizontal asymptote at $y = 0$. End behavior of $f(x)$ as $x \rightarrow -\infty$ is $\lim_{x \rightarrow -\infty} e^x = 0$.

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$x \lim e^x$ $x \lim e$

Domain and Range of
Logarithmic Functions

Note: if a

transformation is

applied to the

logarithmic function ...

Objectives

A logarithmic function
is such a function. In
fact, a logarithm is the
inverse of an
exponential function.

OUTLINE. Let's take a
look at what a
logarithmic function is,

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then we'll come back to our problem.

Logarithmic Functions. Notice that the output to the logarithmic function, or logarithm, is the exponent of the exponential.

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Logarithms are introduced as the inverses of exponential functions. Special care is taken to develop good number sense concerning logarithms before standard work is done with logarithm laws. Equation work with logarithms emphasizes both solving equations that involve logarithms as well as solving exponential equations with logarithms.

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Unit 10 - Exponential and Logarithmic Functions ...

The Richter Scale is a base-ten logarithmic scale. In other words, an earthquake of magnitude 8 is not twice as great as an earthquake of magnitude 4. It is $10^{8-4} = 10^4 = 10,000$ times as great! In this lesson, we will investigate the nature

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of the Richter Scale and the base-ten function upon which it depends.

Introduction to Logarithmic Functions | College Algebra

522 Investigating 522
Chapter 10 Exponential
and Logarithmic
Relations A Preview of
Lesson 10-1 Collect the
Data Step 1 Cut a
sheet of notebook
paper in half, Step 2

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Stack the two halves, one on top of the other. Step 3 Make a table like the one below and record the number of sheets of paper you have in the stack after one cut. Step 4 Cut the two stacked sheets in half, placing the resulting ...

Chapter 10: Exponential and Logarithmic Relations

Graph exponential and

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logarithmic functions, showing intercepts and end behavior, and trigonometric functions, showing period, midline, and amplitude. HSF.IF.8

Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function.

**Logarithmic
Functions - Teacher-**
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Created Lesson Plan

...

Converting to the base 10 allows us to solve this directly using the LOG function of the calculator. = since = 3 and = 3 the two equations are equivalent confirming that the formula for changing the base of a logarithm is valid. For more information on changing the base of a logarithm, see the lesson on CHANGING

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THE BASE OF A
LOGARITHM.

**Lesson LOGARITHMS
AND EXPONENTIAL
AND LOGARITHMIC
EQUATIONS**

Graph exponential and logarithmic functions, showing intercepts and end behavior, and trigonometric functions, showing period, midline, and amplitude. HSF-BF.B.3 Identify the effect on the graph of replacing

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$f(x)$ by $f(x) + k$, $k f(x)$, $f(kx)$, and $f(x + k)$ for specific values of k (both positive and negative); find the value of k given the graphs.

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KEY. WORD
DOCUMENT. WORD

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ANSWER KEY. Lesson
11 Solving Exponential
Equations Using
Logarithms ...

Asymptotes of
Exponential and Log
Functions VIDEO. PDF
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...

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Unit 4 - Exponential and Logarithmic Functions ...

Weekly Syllabus. Below is a sample breakdown of the Exponential and Logarithmic Functions chapter into a 5-day school week. Based on the pace of your course, you may need to adapt the lesson plan ...

Exponential & Logarithmic Functions: Lesson

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In mathematics, the logarithmic function is an inverse function to exponentiation. The logarithmic function is defined as For $x > 0$, $a > 0$, and $a \neq 1$, $y = \log_a x$ if and only if $x = a^y$

Logarithmic Functions - Definition, Formula, Properties ...

Voiceover: The three points plotted below are on the graph of $y = \log_a x$ is

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equal to b to the x power. Based only on these three points, plot the three corresponding points that must be on the graph of y is equal to \log base b of x by clicking on the graph.

Relationship between exponentials & logarithms: graphs

...

The best choice for the base of \log operation is

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5 since it is the base of the exponential expression itself.

However, we will also use in the calculation the common base of 10, and the natural base of e (denoted by \ln) just to show that in the end, they all have the same answers. Log Base of 5

Solving Exponential Equations using Logarithms -

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ChiliMath

Lesson 10.3 The Ellipse
Annotated Notes

Lesson 10.4 The
Hyperbola Annotated
Notes Lesson 10.7

Plane Curves and
Parametric Equations
Annotated Notes

Chapter 10 Review
Review Solutions

Chapter 5 and 11.5
Lesson 5.3 Exponential
Functions Annotated

Notes Lesson 5.4
Logarithmic Functions
Annotated Notes

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Lesson 5.5 Properties
of Logarithms
Annotated ...

Fall Notes - Mrs. Snow's Math - McNeil High School

Unit 5: Days 1&2:
Characteristics of the
Exponential Function
and its Inverse, the
Logarithmic Function
MHF4U Minds On: 10
Learning Goal:
Students will Describe
key features of the
graphs of exponential

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functions (domain, range, intercepts, increasing/decreasing intervals, asymptotes)
Define the logarithm of a number to be the inverse operation of exponentiation, and demonstrate understanding ...

Unit5_ExponentialLo garithmicFunctions - MHF 4U Unit 5 ...

Write expressions in equivalent forms to solve problems. Use

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the properties of exponents to transform expressions for exponential functions. For example the expression $(1.15)^t$ can be rewritten as $(1.15^{1/12})^{12t} \approx (1.012)^{12t}$ to reveal the approximate equivalent monthly interest rate if the annual rate is 15%.

Exponential Functions | Math

Characteristics of

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Logarithmic Functions
with Base 10 ... Lesson
7.6 Applications of
Logarithms Homework
Solutions and
Notes.pdf ... Diploma
Exam Outline Review
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Using Logarithms to
Solve Exponential
Equations 647 Lesson
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9-10 Solution 2 Use the
Change of Base

Theorem with natural
logarithms. $\log_5 18 =$
 $\ln 18 / \ln 5 \approx 1.796$

Check By definition,
 $\log_5 18 \approx 1.796$ is
equivalent to $5^{1.796} \approx$
 18 . The calculator
display at the right
shows that $5^{1.796} \approx$
 18 . It checks.

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