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Function  $e$  and The

Natural Log In ADD

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### Exponential

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Derivatives of  
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& Logarithmic  
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$\ln x$ ,  $e^{2x}$ ,  $x^x$ ,  $x^{\sin x}$

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Logarithmic Functions

Part I Exponential

Functions Logarithms...

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~~Logarithmic Equations~~

What's so special about

Euler's number  $e$ ? |

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Equations Introduction

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Logarithmic...

Section 4.1 Exponential  
Functions 253 Example  
3 Bismuth-210 is an

isotope that

radioactively decays by  
about 13% each day,  
meaning 13% of the  
remaining Bismuth-210  
transforms into another  
atom (polonium-210 in  
this

Chapter 4: Exponential

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and Logarithmic  
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224 Chapter 4 Try it .

Now 1. Given the three statements below, identify which represent exponential functions.

A. The cost of living allowance for state employees increases salaries by 3.1% each

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Chapter 4, Exponential  
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Exponential and Logarithmic Functions - Section ...

It was found that where  $y$  is the number of microliters of oxygen consumed per hour and  $x$  is the weight of the animal (in grams). Solve for  $y$ . Chapter 4:

Exponential and  
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4.4 Logarithmic and  
Exponential Equations  
Example 1 – Oxygen  
Composition  $xy$

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log885.0934.5loglog +=  
24.

And

## Chapter 4 - Exponential and Logarithmic Functions

218 Chapter 4 year:  
 $1.2\% / 12 = 0.1\%$ . Each  
month we will earn  
 $0.1\%$  interest. From  
this, we can set up an  
exponential function,  
with our initial amount  
of \$1000 and a growth

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## Chapter 4

rate of  $r = 0.001$ , and  
our input  $m$  measured  
in months.  $m$

Logarithmic

Chapter 4: Exponential  
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Functions

(4.2) No Horizontal line  
can be drawn that  
intersects the graph of  
an exponential function  
at more than one point.  
This means that the  
exponential function is

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one-to-one and has an inverse. (4.2) Steps for solving a Logarithmic Functions:

## Functions

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### FUNCTIONS 203

Here are the graphs for these two functions. And the main thing to notice is that the graphs

decrease as  $x$  goes up.  $x$

$y$  (0,1) (1,) (1,) Figure

23.4  $f(x)=()$

## CHAPTER 4

## EXPONENTIAL AND

## LOGARITHMIC

## FUNCTIONS

n Chapter 4, we

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## Chapter 4

introduced the exponential function  $y = e^x$  and the natural logarithmic function  $y = \ln x$ , and we studied their most important properties. It is by no means clear that these functions have any substantial connection with the physical world.

Applications of the  
Exponential and



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Natural Logarithm ...

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01) A New Function; 02)

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04) Practice 2; 05)

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06) Exponential

Functions from Data;

07) Exponential Turtle

Example; 08) Growth

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Calculator Example ;

10) Calculator Example

2; Chapter 4.3: The

Number  $e$ ; 01 ...

## Functions

Chapter 4.7:

Applications of

Exponential and

Logarithmic ...

In this chapter, we will

explore exponential

functions, which can be

used for, among other

things, modeling growth

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patterns such as those found in bacteria. We will also investigate logarithmic ... 4:

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inverse, Exponential,  
and Logarithmic

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### Exponential tests to

Determine Whether a  
Function Is One-to-One

1. Show that  $f^{-1}(a^2) = f^{-1}(b^2)$  implies  $a = b$ .

This means that  $f$  is one-to-one. (See Example 1(a).) 2. In a one-to-one function, every  $y$ -value corresponds to no more than one  $x$ -value. To show that a function is not one-to-one, find at

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least two Exponential

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Logarithmic Functions

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Section 5. Exponential

Growth and Decay;

Modeling Data ... Each

group member should

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data that can be modeled by exponential or logarithmic functions. Group members should select the two sets of data that are most ...

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2 Logarithm and  
Exponential functions

2.1 The natural  
logarithm Using the rule

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$\frac{d}{dx} x^n = nx^{n-1}$  for  $n$

an integer we find that the following powers of  $x$  have antiderivatives.. .

$x^{-4}, x^{-3}, x^{-2}, 1, x, x^2, x^3, \dots$

Chapter 2. Logarithm and Exponential function.pdf - 2 2.1 ...

For the following exercises, use a graphing utility to create a scatter diagram of the data

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## Chapter 4

given in the table.

Observe the shape of the scatter diagram to determine whether the data is best described by an exponential, logarithmic, or logistic model. Then use the appropriate regression feature to find an equation that models the data.

Ch. 4 Review Exercises

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