Notes 3 1 Exponential And Logistic Functions

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PreCalc Unit 3 - MathKanection Notes 3 1 Exponential AndNotes #3-2: Exponential and Logistic Functions day 2 (pgs. 258&260) Today we are going to work with transformations of exponential functions. Identifying and + is the growth/decay rate is the transformationNotes #3-1: Exponential and Logistic Functions3.1 Exponential and Logistic Functions_NOTES.notebook 3 September 26, 2012 Exponential Growth and Decay 1. What is the starting cost? 2. What is the decay rate? 3. Write a function that models the value of the car. 4. Find the value of the car after 4 years. A new car that sells for $18,000 depreciates 25% each year.3.1 Exponential and Logistic Functions NOTES.notebook3 Exponential and logarithmic functions 3.1 Introduction to exponential functions An exponential function is a function of the form f(x) = bx where bis a xed positive number. The constant bis called the base of the exponent. 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Here is a sketch of the graph.Section 6-1 : Exponential Functions - Pauls Online Math Notes188 Chapter 3 Exponential and Logarithmic Functions Example 5 Approximation of the Number e Evaluate the expression for several large values of to see that the values approach as increases without bound.e 2.718281828 x 1 1 x x x Graphical SolutionExponential and Chapter 3 Logarithmic Functions522 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 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. 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Example 1: Evaluating Exponential Expressions Use a calculator to evaluate each expression a. -3.12 b. -2πChapter 3 Exponential & Logarithmic FunctionsPre-Calculus NOTES 3-1 Exponential Functions and Their Graphs Exponential Function: f(x) = ax where a > 0, a ≠ 1, and x is any real #. *Why can a not equal 1? Ex 1) Evaluate each function at the indicated value of x. a) f(x) = 3.4x where x = -1/3 b) f(x) = 172x where x = π Graphs of Exponential FunctionsPre-Calculus NOTES 3-1 Exponential Functions and Their GraphsSECTION 3.1 Exponential and Logistic Functions 279 In Table 3.3, as x increases by 1, the function value is multiplied by the base b.This relationship leads to the following recursive formula.

In Example 3,g is an exponential growth function, and h is an exponential decay function. As x increases by 1, g x 4 3x grows by a factor of 3, and h x 8 1 4 x decays by a factor of 1 4.

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Notice that when evaluating exponential functions we first need to actually do the exponentiation before we multiply by any coefficients (5 in this case). Also, we used only 3 decimal places here since we are only graphing. In many applications we will want to use far more decimal places in these computations. Here is a sketch of the graph.

Exponential and Chapter 3 Logarithmic Functions

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REVIEW OF NOTES 3 1 EXPONENTIAL AND LOGISTIC FUNCTIONS

• This is a wonderful story with well-drawn characters the reader can empathize with. When reading, you feel as if you have been picked up and plopped down in China, in the middle of this Chinese/Jewish household. I wanted it to go on forever. This book is profoundly sad and profoundly joyful at the same time, while also being interesting and informative. I was never before aware of Jews in China and now have a jumping-off point from which to do some research. Fascinating! The only thing I was slightly disappointed with was how quickly the end of the story came; near the finish of the book, the years pass too fast and everything is wound up. Mrs. Buck does not give us a "Hollywood" ending, however. She was a tremendously gifted storyteller, and I so look forward to reading her other works.

• Pearl S. Buck's "Peony" is a lovely story that both touched me and informed me about an era of history of which I was unaware. The copy I found was a hardback published by the John Day Company in 1948; so I'm glad to see the story is currently in print. The story is an episodic tale that covers a number of years. Peony is a bondmaid that is apparently a well-treated slave. Buck's text discusses how her owners have the right to sell her, even separate spouses. Peony was sold by her parents as a baby and raised in one of the few Jewish households in China. As the Jewish families have blended with the Chinese, their Jewish identify has become less pure, eventually resulting in the abandonment of Judaism for Chinese philosophy. As Buck traces this, it is due to the welcoming nature of the Chinese whereas Jews in other parts of the world were separated and shunned. Through the wise Chinese merchant character of Kung Chen, Buck indicates that this is due to their own philosophy that theirs in the only God, which encourages their separation. The unrequited love of Peony for her master David and his development as he grows is quite beautiful. When Buck changes gears with the violence in Chapter VII, it happens so swiftly and abruptly that I felt literally stunned as a reader, unable to believe it had happened, much as one probably feels in life after a tragedy. As the story unfolds with David's marriage, the trip to Peking and the consequences of that visit, I found the ending strangely peaceful as Peony's love for David turns to a universal love for mankind. Peony is a masterful work 60 years after it was first published. Enjoy!