NOTES #3-1: EXPONENTIAL AND LOGISTIC FUNCTIONS

Go to page 252 and begin reading at the chapter overview.

In this chapter we explore three interrelated families of functions: _____
_____, and _____ functions.

Exponential functions model _____ and _____ over time, such as
_____ population growth and _____ of radioactive substances.

Logistic functions model _____ population growth, certain chemical reactions,
and the _____ of _____ and diseases.

Logarithmic functions are the basis of the _____ _____ of earthquake
intensity, the pH acidity scale, and the _____ measurement of sound.

Pg. 252 "exponential functions and their graphs"

EXPONENTIAL FUNCTIONS AND THEIR GRAPHS

The functions _____ and _____ each involve a base raised to a power, but the roles
are reversed:

- For _____, the base is the _____ x, and the exponent is the _____ 2:
  f is the familiar monomial and _____ function

- For _____, the base is the _____ 2, and the exponent is the
  _____, x; g is an _____ function. See Figure 3.1

Sketch figure 3.1 below

DEFINITION Exponential Functions

Let ____ and ____ be _____ number constants. An **exponential function** in ____ is a function that
can be written in the form:

super important

Remember
this for ex.3

Where _____ is a _____, _____ is _____, and _____ ≠ 1.
The _____ a is the **initial value of** f (the value at _____); and b is the base.

Notes 3 1 Exponential And Logistic Functions

Michael J. Benton,David A. T. Harper

Notes 3 1 Exponential And Logistic Functions:

Notes 3 1 Exponential And Logistic Functions: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Notes 3 1 Exponential And Logistic Functions : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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Notes 3 1 Exponential And Logistic Functions Introduction

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