

# 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:

Where \_\_\_\_\_ is a \_\_\_\_\_, \_\_\_\_\_ is \_\_\_\_\_, and \_\_\_\_\_  $\neq 1$ .

The \_\_\_\_\_  $a$  is the initial value of  $f$  (the value at \_\_\_\_\_); and  $b$  is the base.

super important

Remember this for ex.3

# Notes 3 1 Exponential And Logistic Functions

**Y. Aiyesimi, I. N. Mogbo, G. A. Okoli**



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