

Instructional Flow – Unit 5 – Exponential and Logarithmic Functions

3.1 Exponential and *Logistic Functions*

- analysis of exponential functions, including base e
- *analysis of logistic functions*
- applications



3.2 Exponential and *Logistic Modeling*

- algebraic and regression models for exponential functions
- *algebraic and regression models for logistic functions*
- applications



3.3 Logarithmic Functions and Their Graphs

- analysis of logarithmic functions, including natural and common logarithmic functions
- applications



3.4 Properties of Logarithmic Functions

- product, quotient, and power rules
- change of base
- applications



3.5 Equation Solving and Modeling

- solution of exponential and logarithmic equations algebraically and graphically
- logarithmic re-expression
- applications



3.6 Mathematics of Finance

- interest for any compounding period
- annual percentage yield