ERASMUS UNIVERSITY ROTTERDAM

Literature suggestion for Entrance examination Mathematics level 1 for International Bachelor in Communication and Media

The following chapters from "Essential Mathematics for Economic Analysis" by Knut Sydsaeter and Peter Hammond (ISBN 0-273-65543-4) could serve as a basis for preparing the level 1 entrance examination in mathematics of Erasmus University. Note that the summary below does not exactly match the examination topics! (For example: the topics Combinatorics and Probability are not covered in this book.)

- Chapter 1: Introductory Topics I: Algebra
- Chapter 2: Introductory Topics II: Equations
- Chapter 4: Functions of One Variable
- Chapter 5: Properties of Functions

Only the following paragraphs:

- 5.1: Shifting Graphs
- 5.2: New functions from old
- 5.3: Inverse Functions

• Chapter 6: Differentiation

Only the following paragraphs (rules of differentiation and application of these rules only; other items may be skipped):

- 6.1: Slopes of Curves
- 6.3: Increasing and Decreasing Functions
- 6.6: Simple Rules for Differentiation
- 6.7: Sums, Products, and Quotients
- 6.8: Chain Rule
- 6.10: Exponential Functions
- 6.11: Logarithmic Functions

• Chapter 10: Financial Topics: Interest Rates and Present Value

Only the following paragraphs:

- 10.1: Interest Periods and Effective Rates
- 10.3: Present Value