Literature suggestion Colloquium doctum Mathematics level 2
for International Bachelor Economics & Business Economics (IBEB)
and for International Business Administration (IBA)
ERASMUS UNIVERSITY ROTTERDAM

The following chapters from "Essential Mathematics for Economic Analysis" (third edition) by Knut Sydsaeter and Peter Hammond (ISBN 978-0-273-71324-1) could serve as a basis for preparing the level 2-IBEB entrance examination in mathematics of Erasmus University. Note that the summary below does not exactly match the examination topics!

- **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**

- **Chapter 8: Single-Variable Optimization**

  Only the following paragraphs:

  - 8.1: Introduction
  - 8.2: Simple Tests for Extreme Points
  - 8.6: Local Extreme Points
  - 8.7: Inflection Points