

ESSENTIAL MATHEMATICS FOR ECONOMICS

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Essential Mathematics for Economics

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Descrizione

This short book is aimed at undergraduate students with a very standard knowledge of algebra learnt at the high school, and it appears as “self contained”.

According to the long teaching experience of the authors, it was written in order to furnish nearly all the material both for a 90-hour course of “Mathematics for Economics”, and for a 45-hour course of “Financial Mathematics”.

The book is the result of a thoughtful selection of the arguments, and of the calibration of the difficulty, in order to allow all students to pass the exam with a sufficiently large knowledge of the material, and at the same time to give to the best students the opportunity to detect stimulating occasions for further personal investigation.

Chapter 1 - Some elements of logic and set theory

1.1 Some elements of logic

1.2 Set Theory

1.3 Exercises

Chapter 2 - Mappings and relations

2.1 Mappings

2.2 Binary relations

2.3 Order relations

2.4 Exercises

Chapter 3 - Combinatorics

3.1 Dispositions without repetitions and permutations

3.2 Combinations

3.3 Dispositions with repetitions

3.4 Exercises

Chapter 4 - Real numbers

4.1 From natural to real numbers

4.2 Quadratic equations and quadratic inequalities

4.3 Basic topological concepts in \mathbb{R}

4.4 Exercises

Chapter 5 - Real-valued functions of one real variable

5.1 General concepts

5.2 Trigonometric functions and their inverses

5.3 Exercises

Chapter 6 - Continuous functions

6.1 Definition and first properties

6.2 Theorems on continuity

6.3 Exercises

Chapter 7 - Limits

7.1 Finite limits

7.2 Infinite limits and limits as x approaches infinity

7.3 Theorems on limits

7.4 Limits with the trigonometric functions

7.5 Exercises

Chapter 8 - Exponential and logarithmic functions

8.1 Powers with real exponents

8.2 Exponential and logarithmic functions

8.3 Limits with exponential and logarithmic functions

8.4 Exercises

Chapter 9 - Differential calculus

9.1 The concept of derivative

9.2 Important derivatives

9.3 Theorems on differentiation

9.4 Local properties of the first degree

9.5 Theorems on differentiable functions on intervals

9.6 Local approximation by means of polynomials

9.7 Local convexity and concavity

9.8 Exercises

Chapter 10 - Integral calculus

10.1 Indefinite integral

10.2 Definite integral

10.3 Exercises

Chapter 11 - Matrix algebra and the structure of R^n

11.1 Basic definitions

11.2 The algebraic and topological structure of \mathbb{R}^n

11.3 Exercises

Chapter 12 - Real functions of many real variables

12.1 General concepts

12.2 Quadratic forms

12.3 Partial derivatives and optimization

12.4 Exercises

Chapter 13 - Basic concepts of financial mathematics

13.1 Classical financial regimes

13.2 The regime of compound interest

13.3 Exercises

Chapter 14 - Annuities and debt amortization

14.1 Annuities and perpetuities

14.2 Amortization of a debt

14.3 Negotiation of a debt: Makeham formula

14.4 Exercises

Chapter 15 - Solution to selected Exercises

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