1. Record Nr. UNINA9910765489203321

| | |
|---|---|
| Autore | Mavron Vassilis C. |
| Titolo | Elements of Mathematics for Economics and Finance / / by Vassilis C. Mavron, Timothy N. Phillips |
| Pubbl/distr/stampa | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023 |
| ISBN | 9783031439100<br>3031439104 |
| Edizione | [2nd ed. 2023.] |
| Descrizione fisica | 1 online resource (390 pages) |
| Collana | Classroom Companion: Economics, , 2662-2890 |
| Disciplina | 260 |
| Soggetti | Mathematics<br>Economics<br>Finance, Public<br>Business<br>Management science<br>Game theory<br>Public Economics<br>Applications of Mathematics<br>Business and Management<br>Game Theory |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | Intro -- Preface -- Preface to the Second Edition -- Contents -- 1 Essential Skills -- 1.1 Introduction -- 1.2 Numbers -- 1.2.1 Addition and Subtraction -- 1.2.2 Multiplication and Division -- 1.2.3 Evaluation of Arithmetical Expressions -- 1.3 Fractions -- 1.3.1 Multiplication and Division -- 1.4 Decimal Representation of Numbers -- 1.4.1 Standard Form -- 1.5 Percentages -- 1.6 Powers and Indices -- 1.7 Simplifying Algebraic Expressions -- 1.7.1 Multiplying Brackets -- 1.7.2 Factorization -- 2 Linear Equations -- 2.1 Introduction -- 2.2 Solution of Linear Equations -- 2.3 Solution of Simultaneous Linear Equations -- 2.4 Graphs of Linear Equations -- 2.4.1 Slope of a Straight Line -- 2.5 Budget Lines -- 2.6 Supply and Demand Analysis -- 2.6.1 Multicommodity Markets -- 3 Quadratic Equations -- 3.1 Introduction |

Sommario/riassunto

Based on over 15 years’ experience in the design and delivery of successful first-year courses, this book equips undergraduates with the mathematical skills required for degree courses in economics, finance, management, and business studies. The book starts with a summary of basic skills and takes its readers as far as constrained optimisation

helping them to become confident and competent in the use of mathematical tools and techniques that can be applied to a range of problems in economics and finance. Designed as both a course text and a handbook, the book assumes little prior mathematical knowledge beyond elementary algebra and is therefore suitable for students returning to mathematics after a long break. The fundamental ideas are described in the simplest mathematical terms, highlighting threads of common mathematical theory in the various topics. Features of the book include: a systematic approach: ideas are touched upon, introduced gradually and then consolidated through the use of illustrative examples; several entry points to accommodate differing mathematical backgrounds; numerous problems, with full solutions, and exercises to illustrate the theory and applications; key learning objectives and self-assessment questions provided for each chapter; full solutions to exercises, available to lecturers via the web. Vass Mavron is Emeritus Professor of Mathematics at Aberystwyth University. Tim Phillips is Professor of Applied Mathematics in the School of Mathematics at Cardiff University.