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Articles, notes, generalizations, paradoxes, miscellaneous in mathematics, linguistics, and education.

The utility of this article is that it establishes if the number of the natural solutions of a general linear equation is limited or not. This unique and innovative book presents an exciting and complete detail of all the important topics related to the theory of square matrices of order 2. The readers exploring every detailed aspect of matrix theory are gently led toward understanding advanced topics. They will follow every notion of matrix theory with ease, accumulating a thorough understanding of algebraic and geometric aspects of matrices of order 2. The prime jewel of this book is its offering of an unusual collection of problems, theoretically motivated, most of which are new, original, and seeing the light of publication for the first time in the literature. Nearly all of the exercises are presented with detailed solutions and vary in difficulty from easy to more advanced. Many problems are particularly challenging. These, and not only these, invite the reader to unleash their creativity and research capabilities and to discover their own methods of attacking a problem. Matrices have a vast practical importance to mathematics, science, and engineering; therefore the readership of this book is intended to be broad: high school students wishing to learn the fundamentals of matrix theory, first year students who like to participate in mathematical competitions, graduate students who want to learn more about an application of a certain technique, doctoral students who are preparing for their prelim exams in linear algebra, and linear algebra instructors. Chapters 1–3 complement a standard linear algebra course. Pure and applied mathematicians who use matrix theory for their applications will find this book useful as a refresher. In fact, anyone who is willing to explore the methodologies discussed in this book and work through a collection of problems involving matrices of order 2 will be enriched.

Volum coordonat de Oana Bârna Texte de Gabriel Liiceanu, Ioana Pârvulescu, Radu Paraschivescu, Tatiana Niculescu, Anamaria Smigelschi, Andrei Pleșu, Adriana Bittel, Dan Tîpîlag, Jean A. Harris, Vlad Zografi, Clotilde Armand, Ariana Rosser Macarie, Andreea Răsuceanu, Andrei Cornea, Monica Pillat, Mihaela Coman, Horia-Roman Patapievici În loc de introducere: Cioran despre (ne)fericire În loc de încheiere: Punctul 7 din chestionarul lui Proust: „Fericirea pe care mi-o visez” „Ce-ar fi să descoperim că adevărata fericire e cea care ne pune viața la încercare și îi dă o împlinire tocmai pentru că a fost smulsă unei lumi ostile? S-ar putea ca trecerea noastră pe pământ să capete altă formă când, în strădania noastră spre fericire, suntem puși în situația de a compune un destin nu cu bunăstarea, răsfațul și trufia marilor popoare, ci cu suferința celor «insignifiante» (Cioran). Ce miză extraordinară intră în joc când întrebarea privitoare la fericire se naște dintr-unul unei istorii nefaste! Cum de-au existat oameni care și-au găsit fericirea într-o lume în care totul predispucea la nefericire? Să existe oare o alchimie grație căreia, dintr-o viață atacată pe versantul ei negativ, sfârșești prin a extrage poftă de viață și gândul final că nu ai trăit degeaba? Pe scurt: cum e cu puțină ecuația paradoxală a fericirii? (GABRIEL LIICEANU)

Octogon Mathematical Magazine Gazeta matematică Sharpening Mathematical Analysis Skills Springer Nature Proposed Problems of Mathematics, Vol. III Infinite Study

This text treats the classical theory of quadratic diophantine equations and guides the reader through the last two decades of computational techniques and progress in the area. The presentation features two basic methods to investigate and motivate the study of quadratic diophantine equations: the theories of continued fractions and quadratic fields. It also discusses Pell's equation and its generalizations, and presents some important quadratic diophantine equations and applications. The inclusion of examples makes this book useful for both research and classroom settings. In Romanian, French, English.

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