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Secondary school students' misconceptions about linear algebra

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ABSTRACT

In this study, the difficulties that students have experienced in learning linear algebra, an abstract scientific discipline of mathematics, have been researched. These difficulties, which started in secondary education, are also reflected in the university. It was investigated where troubles originate and what needs to be done to reduce them, in order to prevent these difficulties. For this purpose, an answer was sought in the question "Misconceptions and proposed of solutions in linear algebra at secondary education level". This research was conducted on 43 students studying at a secondary school. The students were asked six questions in total: five written and one oral. The collected data were analysed by researchers jointly. It has been revealed where the students made misconceptions. Some suggestions have been made to minimize these misconceptions. It was determined that the students made less misconceptions, when the concepts were explained. Findings and results will be shared detailed in the presentation.

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Зміст

N. Aygor, H. Burhanzade <i>Secondary school students' misconceptions about linear algebra</i>	3
S. Bardyla, H. Kvasnytsia <i>Semitopological graph inverse semigroups</i>	4
B. A. Bhayo <i>On inequalities of generalized elliptic integrals</i>	5
Bodzioch M., Choiński M., Foryś U. <i>A criss-cross model of tuberculosis for heterogenous population</i>	6
Bolotov D. V. <i>Foliations with leaves of non-positive curvature and bounded total curvature on closed 3-manifolds</i>	7
E. Bonacci <i>Algebraic and geometric questions about a 6D physics</i>	9
F. Bulnes <i>Mukai-Fourier Transform in Derived Categories to Solutions of the Field Equations: Gravitational Waves as Oscillations in the Space-Time Curvature/Spin IV</i>	10
H. Burhanzade, N. Aygor <i>A study on the teaching methods in determinants</i>	12
Damla Yaman <i>Order continuity properties of lattice ordered algebras</i>	13
Denega I. <i>Problem on non-overlapping polycylindrical domains with poles on the boundary of a polydisk</i>	14
A. Dudko, V. Pivovarchik <i>Inverse three spectra problem for a Stieltjes string with the Neumann boundary conditions</i>	16
Eftekharinasab K. <i>On the existence of a global diffeomorphism between Fréchet spaces</i>	18
Glazunov N. <i>Class groups of rings with divisor theory, L-functions and moduli spaces</i>	19
O. Gok <i>b-bimorphisms</i>	21
Gül E. <i>On the second regularized trace formula for a differential operator with unbounded coefficients</i>	22
Hentosh O. Ye., Prykaratsky Ya. A. <i>The Lie-algebraic structure of the Lax-Sato integrable superanalogs for the Liouville heavenly type equations</i>	24
V. Herasymov <i>In a natural topological sense a typical linear nonhomogeneous differential equation in the ring $Z[[x]]$ has no solutions from $Z[[x]]$.</i>	26
Juraev D. A. <i>On the Cauchy problem for matrix factorizations of the Helmholtz equation</i>	27
M. E. Kansu <i>Macroscopic electromagnetism via complex quaternions</i>	29
Vladimir V. Kisil <i>An extension of Möbius–Lie geometry with conformal ensembles of cycles</i>	30
Konovenko N., Lychagin V. <i>Rational differential invariants for oriented primary visual cortex</i>	32