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Tetunashvili, Tengiz

On some aspects of group theory in higher mathematics courses.

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Summary: It is demonstrated that some essential aspects of group theory should be included and highlighted in any contemporary course of higher mathematics. For this purpose, several topics of group theory are indicated, such as: modern approach to various geometric structures, general concept of symmetry, equidecomposability paradoxes, etc. The valuability of these topics for higher mathematics courses is vividly shown.

Classification: H45

Keywords: group theory; invariants; symmetry; set theory; axiom of choice; equidecomposability paradoxes