**Belarusian State University
Faculty of Mechanics and Mathematics
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**Annotation to the diploma work
"The Jordan theorem"**

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The diploma contains:

— 34 pages,

— 10 pictures,

— 9 used sources.

Keywords: THE JORDAN THEOREM, THE TVERBERG PROOF, THE VOLPERT PROOF, THE PROOF OF A PHILIPPE, THE PROOF OF A ROE.

In the thesis, the Jordan theorem and some of its proofs are considered.

The aim of the thesis is to study the basic concepts related to the Jordan theorem, formulate the theorem of Jordan, and also to give some of its proofs (the proofs of Tverberg, Volpert, Filippov, and Roe).

To achieve the goal, the following tasks have been set and solved in the work:

— The Jordan theorem is formulated

— The history of the theorem is considered

— Some proofs of the theorem are given

The thesis includes:

1) the formulation of the theorem of Jordan

2) proofs of the theorem of Jordan, in particular, the proofs of Tverberg, Volpert, Filippov, and Roe.

The thesis was written by the author himself.