

Matrix Group

Presentation Assignment

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Date: November 27, 2025
Duration: 30 minutes

Presentation Instructions

- The presentation contains 20 points. It is divided into three parts. The content contains 12 marks, whereas the presentation and the question answer contain 6 marks.
- The time limit is strict. You may take at most 5 minutes extra. So, in any case, try to wrap up your talk by 35 minutes.

Presentation Topic

Matrix group are manifolds

The goal is to show that any matrix group is a smooth manifold.

Problem

1. Show that any matrix group G is a smooth manifold.

Good luck with your presentation! If you have any questions, please don't hesitate to reach out.