Further Mathematics: Core Pure Topic Questions Spring 2024

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Further Mathematics \mid Core Pure Topic Questions

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1. Preface

This is a set of topic questions collected from numerous past papers and exercise sheet solutions designed for further mathematics specification in Edexcel's UK A Levels from 2017.

Most questions were selected from official past papers, but not limited to the Edexcel exam board. In fact I would like to avoid use of official UK Edexcel past paper questions from 2018 onwards as they can be used for mocks and would be a valuable source of pre-exam practices. Most questions here are coming from past papers from other exam boards (AQA, OCR, Edexcel IAL, CAIE, AQA International, WJEC) on the same topics as the Edexcel syllabus, or pre-2017 Edexcel questions, as well as other sources online. References to the original source of questions will be included.

For AS students using this material: some of the questions even on AS topics would include A2-only level questions due to the difference between examination specification and the textbook contents. I will try to mark the "A2-only" questions explicitly but there may be questions I'm mismarking or missing. In such cases please let me (or your further maths teacher) know and we can mark the relevant questions. A more convenient way is to use your Github to access this repository and **create a pull request**.

For the situation above and if you find any other mistakes, or you just want to add the questions, or complain about something, you can also <u>create a pull request</u> on Github directly from this project's source repository at https://github.com/YunkaiZhang233/a-level-further-maths-topic-questions-david-game.

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This document was made by typst, available at here.

2. Proofs

Examinable Contents

3. Complex Numbers

Examinable Contents

4. Matrices

Examinable Contents

5. Further Algebra

Examinable Contents

6. Further Calculus

Examinable Contents except volumes of revolution, *All topics A2 only.*

7. Further Vectors

Examinable Contents

8. Polar Coordinates

Examinable Contents All topics A2 only.

9. Hyperbolic Functions

Examinable Contents All topics A2 only.

10. Differential Equations

Examinable Contents All topics A2 only.