

Schedule

Type: 4

8:15 – 12:00: *No lecture.* Presentations by group members after preparation. If time permits: supplementary exercises.

Presentation on FTC

You are asked to prepare a short presentation (at most 15 minutes) on the Fundamental Theorem for Curves (FTC) and its proof. The presentation should include

- a description of the main result,
- an outline of the proof, and
- at least one argument in detail.

If questions arise, please write them down in an email to me. I will then try to answer them the next time we meet.

You may choose to concentrate on one of the dimensions (2 or 3), you may choose to concentrate on the proof for existence or for uniqueness, but you should at least mention the aspects that you will not explain in detail. Try to make your presentation as self-contained as possible.

You should choose one or two group members who will talk in front of the others – or of a neighbour group, and at least one member whose task it is to constructively criticize the presentation with respect to content, (possible) mistakes/misunderstandings and explanatory “performance”.

As your main source, you may choose one of the references mentioned on the lecture plan for Activity 3¹ or also your lecture notes – or a combination.

Exercises

Leftovers from previous activities

AP Ex. 2.3.3, p. 54

FR Ex. 1.4.5, 4 – 5, p. 49

AP Ex. 2.2.7, p. 45. Check the evolute applet.

FR Read and understand ch. 1.3.6 and ch. 1.4.4 in [FR].

Next Activity

Thursday, September 20, 8:15 – 12:00.
Type 2.

Introduction to surfaces.

(AP), ch. 4.1, 4.2 (incl. proof of Thm. 4.2.6, p. 117/118), 5.1

¹in [FR], these correspond to Theorem 1.51 and 1.74