

Assignment 2 for MAT4170

Spline methods, Spring 2023

This assignment consists of:

1. Bezier curves: Exercises 2.2 and 2.3 of the Compendium.
2. Divided differences: Exercises 3.1 and 3.2 of the Compendium.
3. B-splines: Exercise 3.4 of the Compendium.
4. B-splines: What are the smoothness properties of $B[0, 0, 0, 0, 1](x)$ and $B[0, 1, 1, 1, 2](x)$?
5. **(Optional)** Bezier curves: Exercise 2.4 of the Compendium.

To be completed by Monday 6 March. Please send your solution as a single pdf file (including plots/figures) to michaelf@math.uio.no.