

Assignment 1 for MAT4170

Spline methods, Spring 2021

To be completed by Tuesday 9 February. Please send your solution as a single pdf file (including plots/figures) to michaelf@math.uio.no.

1. Problem 1.3 a) in the compendium. Implement the method in your favourite programming language (e.g. Python, Matlab), by taking repeated convex combinations, as illustrated in Figure 1.17 a). Test your implementation on a similar data set and plot the results.
2. Problem 2.1 h) of the compendium.
3. Problem 2.5 of the compendium. Hint: use induction.