

Weekly Exercises 12

To be discussed on Friday, 24.01.2020, 10:15-11:45, in room H-C 6336
Submission deadline: Wednesday, 22.01.2020, in the lecture

Programming

Exercise 1 (4 points). Implement and test the simplified version of the Remez-Algorithm as shown on slide 20 of the lectures handout to find the best L^∞ polynomial approximation of the function

$$f(x) = \text{sign}(x) \sin(\pi\sqrt{|x|})$$

on the interval $[-1, 1]$. Compare your results to the results of the previous exercise sheet.