

Homework Assignment

Prepare a report on the following problem:

Given a series of signals:

$$f_k(t) = \frac{\sin((2k-1)2\pi t)}{(2k-1)}$$

draw the graphs of the cumulative signal $f(t)$:

$$f(t; N) = \frac{4}{\pi} \sum_{i=0}^{i=N} f_i(t)$$

for $N = \{0, 3, 10\}$ for the parameter $t \in [0, 4\pi]$.

The report should contain (at least):

- Author's name, matric. card number.
- The problem statement with the formula for the signal $f_i(t)$.
- A figure showing the cumulative signals.
- The source code of all Octave scripts used for preparing the report.

Important

- Reports should be prepared as PDF files and sent by e-mail to the respective tutor.
- For grading information, hints and additional materials please visit <http://www.15.pk.edu.pl/~putanowr/iten>.