



EUROPEAN UNION EUROPEAN SOCIAL FUND

Information Technology

Homework Assignment

Prepare a report on the following problem: Given a series of signals:

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

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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):

- a) Author's name, matric. card number.
- b) The problem statement with the formula for the signal $f_i(t)$.
- c) A figure showing the cumulative signals.
- d) 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.l5.pk.edu.pl/ ~putanowr/iten .

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