Chapter 1

Requirements

From my research and analysis I have created a set of requirements that I aim to fulfill. I have split these requirements into development iterations that they will be linked with. Each iteration has a theme that most of the requirements will follow.

- Iteration 1 - Emphasis on Core Functionality

    - Plot a explicit function in x
    - Plot multiple functions
    - Zoom in/out of the graph
    - Pan around the graph

- Iteration 2 - Emphasis on the User

    - Identify roots and turning points
    - Plot special functions such as trigonometric functions, logarithmics, modulus functions, etc.
    - Multiple plots that you can switch between
    - Save plots as pictures
    - Save workspace to resume later
    - LaTeX equation support
    - Dark Theme

- Iteration 3 - Advanced Features

    - Differentiate explicit continuous functions with respect to x
    - Polar equations
    - Implicit equations
    - Parametric equations