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Variant 2.

Exact solution function:

Differential equation solution:

$$y(x) = 2x + e^{-2x} - 1$$

My program consist of three main files: main.py (entry point), calc.py (where implemented all calculations) and gui.py (imports calc.py and draw the plot). Orange plots are Numeric, and Blue one is exact solution graph. For main language I choose python, because it show better results for me when I work with calculations.

Program provide GUI interface to compare different results.