Calculus Assignment with Graphs

Calculus Assignment Solutions

Problem 1: Exponential Functions

Analyze the exponential function and create an exponential graph.

Exponential Function

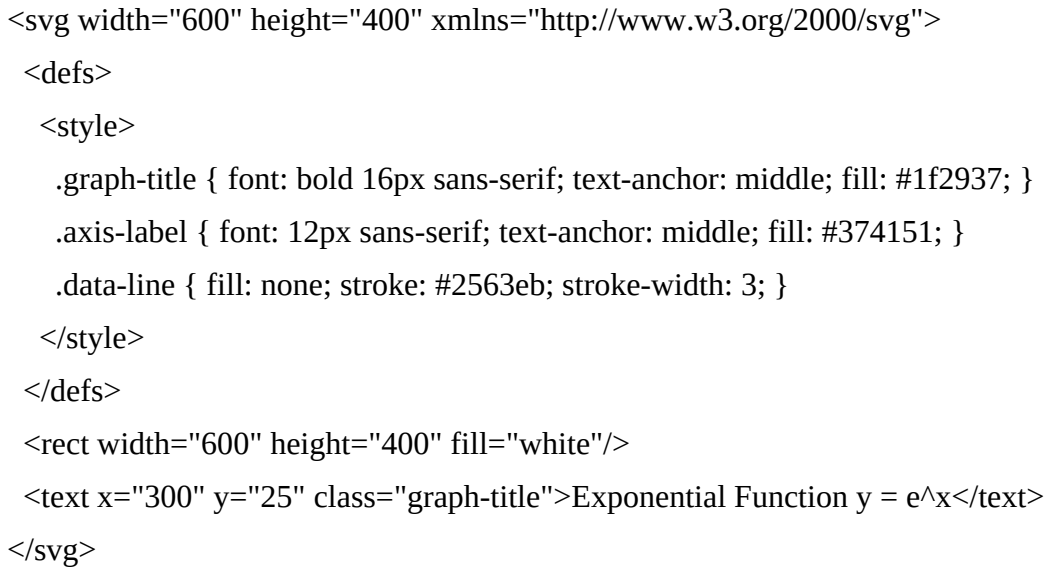

Figure: Exponential growth visualization

Analysis

The exponential function shows rapid growth for positive x values and approaches zero for negative values. The mathematical formula is: [f(x) = e^x]

Key properties:

- Domain: All real numbers
- Range: (0, ")
- y-intercept: (0, 1)