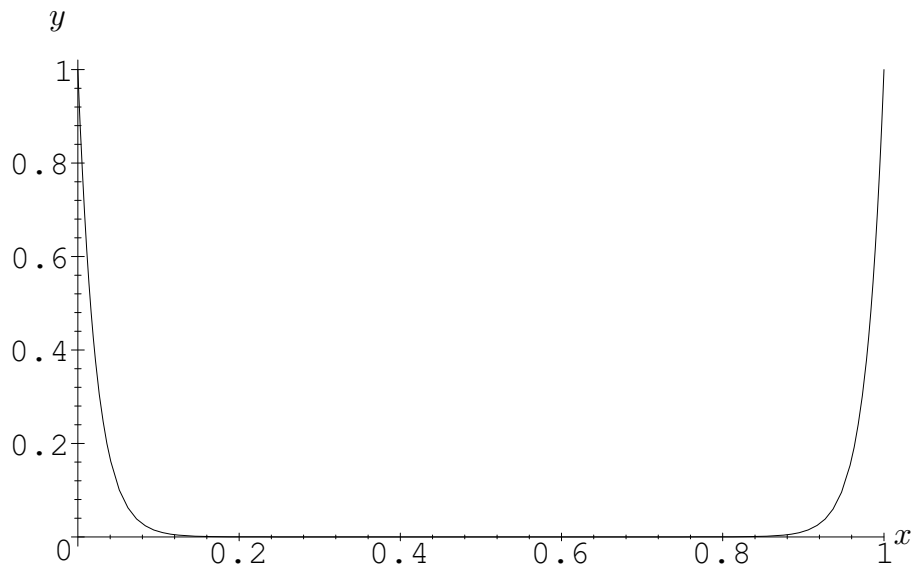


# WKB/Singular Perturbation Comparison

Consider the following equation:

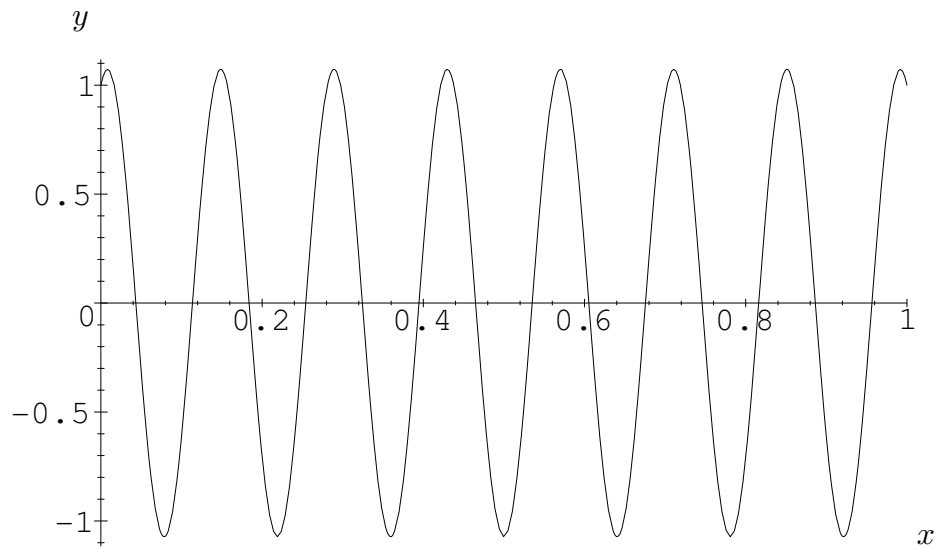
$$\epsilon y'' - y = 0, \quad y(0) = 1, \quad y(1) = 1. \quad (1)$$



Solution of (1) with  $\epsilon = 5 \times 10^{-4}$ .

Consider the following equation:

$$\epsilon y'' + y = 0, \quad y(0) = 0, \quad y(1) = 1. \quad (2)$$



Solution of (2) with  $\epsilon = 5 \times 10^{-4}$ .