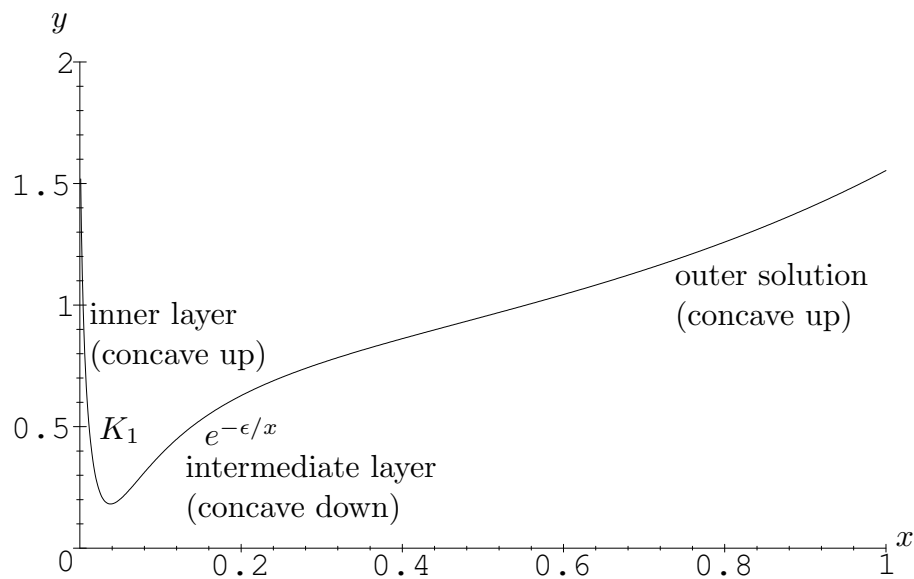


## Intermediate Layer

Consider the following system:

$$\epsilon^3 xy'' + x^2 y' - (x^3 + \epsilon)y = 0, \quad y(0) = 2, \quad y(1) = e^{1/2}. \quad (1)$$



Asymptotic solution with  $\epsilon = 0.1$ . (Even with such a “large” value of  $\epsilon$ , the solution is too unstable to calculate with Maple.)