

Problem 26

In each of Problems 23 through 28, plot several partial sums in a series solution of the given initial value problem about $x = 0$, thereby obtaining graphs analogous to those in Figures 5.2.1 through 5.2.4.

$$(4 - x^2)y'' + 2y = 0, \quad y(0) = 0, \quad y'(0) = 1; \quad \text{see Problem 10}$$