

SOLVING DIFFERENTIAL EQUATIONS BY SERIES (§6.2)

Team effort! Find at least the first *five* coefficients $(c_0, c_1, c_2, c_3, c_4)$.

Find the solution of the ODE IVP by an appropriate power series:

$$y' + (x - 1)y = 3, \quad y(1) = 2$$



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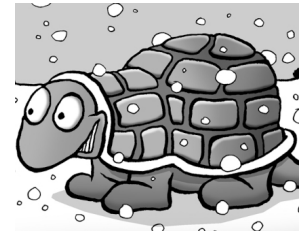
Use the power series method to solve the initial value problem:

$$(x + 1)y'' + y = 0, \quad y(0) = 0, \quad y'(0) = 1$$



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Use the power series method to solve the initial value problem:

$$y'' + (x + 1)y = 0, \quad y(0) = 1, \quad y'(0) = 0$$