Exercises from text

Sec 7.2: 2, 5

Additional problems

Problem A: Find the first 4 nonzero terms of two LI series solutions $2y'' - ty' + 3y = 0$. If possible write down a formula for the general term for each solution.

Problem B: Find the first 4 nonzero terms of two LI series solutions $2y'' - ty' + 3y = e^t$. If possible write down a formula for the general term for each solution.

Problem C: Find the first 4 nonzero terms of a solution to the IVP $y'' + (\sin t)y = 0$, $y(0) = 0$, $y'(0) = 1$.