[11-04-05-T11]
Do this instead of assignment given in class

[1] The series we considered in class was *not* the one in the book on page 76. So, please do the demonstration on page 76 along with the book and problem #8 that follows it.

Then,

[2] Find the sum of the first n terms of the series we *did* consider in class. Then, try a few numeric cases to lend some confidence to the solution you get. The series was:

$S_n = x + 2\,x^2 + 3\,x^3 + \ldots + (n-1)\,x^{(n-1)} + n\,x^n.$