Physics 255   Homework Due Wednesday, April 18

Section 12.1. In #10, don't follow the instructions in the book. Proceed as follows:
- Use the method of series solution to find a recursion relation for the coefficients.
- Calculate the $O(x^7)$ solution. That is, calculate the power series solution up to and including the x^7 term. Your answer will depend on the coefficients a_0 and a_1.
- What is the $O(x^7)$ solution satisfying the initial conditions $y(0) = 2$, $y'(0) = -1$.