Chapter 4 Written Work #1. A question about the auxiliary equation based on the solution. A new twist, but definitely in our reach and within our grasp.

$$e^x + xe^x + x^2 e^x$$

1, 1, 1   root of aux. eq'n

$$5x + 2x^2 + 7$$

0 is a root of multiplicity 3.
of the auxiliary eq'n