7. [15 points] For each of the following find explicit, real-valued solutions as indicated. For this problem, do use Laplace transforms.
   
a. [8 points] Solve \( y'' + 2y' + 10y = 5, \ y(0) = 1, \ y'(0) = 2. \)
   
b. [7 points] Find the solution to \( y'' + 5y' + 6y = e^{-3t}, \ y(0) = y'(0) = 0. \)