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 $y^{\prime \prime}+2 y^{\prime}+10 y=5, y(0)=1, y^{\prime}(0)=2$.
b. [7 points] Find the solution to $y^{\prime \prime}+5 y^{\prime}+6 y=e^{-3 t}, y(0)=y^{\prime}(0)=0$.
