- 2. [15 points] Find explicit, real-valued solutions to each of the following, as indicated. For this problem, USE Laplace transforms.
 - **a.** [8 points] Find the solution y(t) to the initial value problem y'' + 3y' + 2y = 4, y(0) = 0, y'(0) = 0.

b. [7 points] Find the solution z(t) to the initial value problem z'' + 2z' + 10z = 0, z(0) = 1, z'(0) = 3.