- 1. [16 points] Find real-valued solutions for each of the following, as indicated. (Note that minimal partial credit will be given on this problem.)
 - **a.** [8 points] Find the general solution to y'' + 4y' + 13y = 26t.

b. [8 points] Solve $y'' + 6y' + 8y = e^{-2t}$, y(0) = 0, y'(0) = 0.