

4-3

15

$$y''' - 4y'' - 5y' = 0$$

$$m^3 - 4m^2 - 5m = 0$$

$$m(m^2 - 4m - 5) = 0$$

$$m(m-5)(m+1) = 0$$

$$y_c = c_1 + c_2 e^{5t} + c_3 e^{-t}$$