HOMEWORK 14-PART B

1. Solve $y''' - 6y'' + 12y' - 8y = 0$.

2. Solve the initial value problem, $y''' - 4y'' - 7y' + 10y = 0$, with $y(0) = 1, y'(0) = 0$, and $y''(0) = -1$.

3. Solve $y'''' + 2y''' + 5y'' + 4y' + 4y = 0$.
(Hint: $x^4 + 2x^3 + 5x^2 + 4x + 4 = (x^2 + x + 2)^2$.)