Name: _____

1. [3 points] Find the general solution to $y^{(4)} + y^{(3)} - 8y'' - 12y' = 0$.

2. [3 points] Find the general solution to $y^{(2)} - 3y' - 10y = te^{2t}$.

3. [4 points] Solve the IVP y'' - 4y' + 4y = t with y(0) = 0 and y'(0) = 1.