Name:_____**RUID:**_____

Email:_____

(1) (10 pt) Find the general solution to the ODE

$$y''' - 3y'' + 3y' - y = te^t$$

(2) (10 pt) Find the general solution to the ODE

$$y^{(4)} - 2y^{(3)} + 2y^{(2)} = te^t \cos t$$