Name	ID	SEC

Q1) Verify that $y = c_1 e^{2x} + c_2 e^{5x} + 6e^x$ is the general solution of the DE $y'' - 7y' + 10y = 24e^x$.

Q2) Given that $y = e^{x/3}$ is a solution of the DE $6y''+y'-y = 0$. Use reduction of order to reduce the given DE into an equation of the first order. Then find a second solution. (You may use the formula.)