QU	117	N	O٠	1

Name:_______ID:__________Section______

Q1. (5 points) Solve the first order linear differential equation if $x^2 \frac{dy}{dx} + xy = x^2 e^x$ with y(1)=1

Q2. (5 points) Find a condition under which $(x^2 + c_1xy)dx + (x^2 + y^2)dy = 0$ is exact. Also, solve the equation.