Math 301 Quiz 4

(A)

.ID#:.....Ser:.....

Q.1: Solve $y' + 6y = e^{4t}$, y(0) = 2.

Q.2: Solve y'' - 6y' + 13y = 0, y(0) = 0, y'(0) = -3.

Q.3: Use Laplace transform to solve the integral equation $f(t) = \cos t + 3 \int_{0}^{t} e^{-3\tau} f(t-\tau) d\tau$.