Math 301-132 Quiz 3

Name:.....Sec#:.....ID#:.....Ser#:.....

Q.1: Solve $y'' + 4y = \sin t\, \mathcal{U}(t - 2\pi)$, $y(0) = 1$ and $y'(0) = 0$.

Q.2: Solve $f(t) = te^t + \int_0^t \tau f(t-\tau)d\tau$ for $f(t)$.

Q.3: Solve $y'' + 4y' + 13y = \delta(t-\pi) + \delta(t-3\pi)$, $y(0) = 1$ and $y'(0) = 0$