

Math 301-122 Quiz 5 (A)

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

Q.1: Solve the wave equation $\frac{\partial^2 u}{\partial x^2} = \frac{\partial^2 u}{\partial t^2}$ subject to the conditions $u(0, t) = 0$, $u(\pi, t) = 0$
and $u(x, 0) = 0$, $u_t(x, 0) = 5 \sin(x) + 2 \sin(3x)$.