Attendance Quiz for Lecture 16

NAME: (print!) _____   **Section:** _____

E-MAIL ADDRESS: (print!) _____

1. Solve the boundary value problem

$$u_{xx} = u_{tt} \quad , \quad 0 < x < \pi \quad , \quad t > 0 \quad ;$$

$$u(0, t) = 0 \quad , \quad u(\pi, t) = 0 \quad , \quad t > 0 \quad ;$$

$$u(x, 0) = 3 \quad , \quad u_t(x, 0) = 4 \quad , \quad 0 < x < \pi \quad .$$