

## HW #7b

Math 182, Spring 2009

Due Friday, March 20, 2009, by 11:00 a.m.

Solve using the method of characteristics

$$\begin{aligned}u_{tt} &= c^2 u_{xx}, \quad 0 < x < L, \quad t > 0 \\u(x, 0) &= 0, \quad u_t(x, 0) = 0, \quad 0 < x < L \\u(0, t) &= h(t), \quad u(L, t) = 0\end{aligned}$$