AME 538 Homework 26 Due: Friday, 10 November 2000, in class

1. Air, considered to be calorically perfect and ideal, is at rest in a tube. For $0 \ m \le x \le 1 \ m$, we have $T(x,0) = 300 \ K$. For $0 \ m \le x \le 0.5 \ m$ we have $P(x,0) = 200 \ kPa$. For $0.5 \ m < x \le 1 \ m$, we have $P(x,0) = 100 \ kPa$. Plot $P(x,t = 0.0001 \ s)$, $T(x,t = 0.0001 \ s)$.