

1. Isothermal Sound Waves – Part 2

Returning to the sound-wave solution you obtained in Part 1:

(d) What is the component of the group velocity in the x direction?

(e) Are isothermal sound waves faster or slower than true (adiabatic) sound waves? Why do you think that is the case? You might want to think about the magnitude or amplitude of p' variability in the isothermal case versus the (true) adiabatic case.